Vishay Lead-Free Family Summary Sheet - Active Components

Product Description			IPC/JEDEC Standard 609A - Pb Free "2nd-Level Interconnect" Status									Soldering & Reflow Profile					RoHS Status					China Pollution Act Information (ST/T11363-2006) - China RoHS Status									PCN Status	
Technology/ Product Line	Product Family	Vishay Division	Pb-free Qualification Report Available (Yes/No)	Pb-free Samples Available (Yes/No)	Pb-free Mass Production (Q/Y)	Pb/Pb-free Material Code Marking	How to Order Lead Free Part (Web)	Termination Plating Finish	Plating Underlayer	Terminals Base Material/Alloy	Tin Lead (SnPb) Products/Termination available (Yes/No)	J-STD-020 Moisture Sensitivity Level Rating	Backward Compatibility	Peak Reflow Temperature (Deg C)	Time @ Peak Reflow Temperature (sec)	Maximum Number of Cycles Allowed @ Peak Reflow Temperature	RoHS Compliant (Yes/No/YwE)	Exemptions Used (Exemption # only)	RoHS Qualification Report Available (Yes/No)	RoHS Compliant Samples Available (Yes/No)	RoHS Compliant Mass Production (Q/Y)	China ROHS Compliant (YES/NO) 符合 中国 RoHS (是/否)	EPUP (YEARS) 环保使用期限 (年)	Location of Hazardous Substance(s) 有毒有害物质 所在部件	Pb 铅 X for C>MCV O for C<MCV 0,1 wt% (SJ/T11363-2006)	Hg 汞 X for C>MCV O for C<MCV 0,1 wt% (SJ/T11363-2006)	Cd 镉 X for C>MCV O for C<MCV 0,01 wt% (SJ/T11363-2006)	Cr(VI) 六价铬 X for C>MCV O for C<MCV 0,1 wt% (SJ/T11363-2006)	PBB 多溴联苯 X for C>MCV O for C<MCV 0,1 wt% (SJ/T11363-2006)	PBDE 多溴二苯醚 X for C>MCV O for C<MCV 0,1 wt% (SJ/T11363-2006)	Product Change Notification No#/ Ref#	Product Change Notification Date
MOSFETS																																
PMOS, SC-70	Si1xxxDL	SI	Yes	Yes	Yes	No	Add "-E3" or"-Ge3" suffix	Pure Matte Tin	None	Alloy 42	No	MSL1	Yes	260C	30	3	Yes	No	Yes	Yes	Yes	Yes	10	N/A	0ppm	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
PMOS, SC-70	Si1xxxDH	SI	Yes	Yes	Yes	No	Add "-E3" or"-Ge3" suffix	Pure Matte Tin	None	Copper Olin 194	No	MSL1	Yes	260C	30	3	Yes	No	Yes	Yes	Yes	Yes	10	N/A	0ppm	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
PMOS, SC-75A	Si1xxxR	SI	Yes	Yes	Yes	No	Add "-E3" or"-Ge3" suffix	Pure Matte Tin	None	Alloy 42	No	MSL1	Yes	260C	30	3	Yes	No	Yes	Yes	Yes	Yes	10	N/A	0ppm	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
PMOS, SC-89	Si1xxxX	SI	Yes	Yes	Yes	No	Add "-E3" or"-Ge3" suffix	Pure Matte Tin	None	Alloy 42	No	MSL1	Yes	260C	30	3	Yes	No	Yes	Yes	Yes	Yes	10	N/A	0ppm	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
PMOS, SOT-23	Si2xxxDS	SI	Yes	Yes	Yes	No	Add "-E3" or"-Ge3" suffix	Pure Matte Tin	None	Copper Olin 194	No	MSL1	Yes	260C	30	3	Yes	No	Yes	Yes	Yes	Yes	10	N/A	0ppm	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
PMOS, Small Signal, SOT-23	2N7002x, TNxxxxK, VNxxxxK, TPxxxxK, VPxxxxK	SI	Yes	Yes	Yes	No	Add "-E3" or"-Ge3" suffix	Pure Matte Tin	None	Copper Olin 194	No	MSL1	Yes	260C	30	3	Yes	No	Yes	Yes	Yes	Yes	10	N/A	0ppm	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
PMOS, Small Signal, TO-92	2N7000KL, TNxxxxKL, VNxxxxKL, TPxxxxKL, VPxxxxKL	SI	Yes	Yes	Yes	No	Add "-E3" or"-Ge3" suffix	Pure Matte Tin	None	Alloy 42	No	MSL1	Yes	260C	30	3	Yes	No	Yes	Yes	Yes	Yes	10	N/A	0ppm	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
PMOS, TSOP-6	Si3xxxDV	SI	Yes	Yes	Yes	No	Add "-E3" or"-Ge3" suffix	Pure Matte Tin	None	Copper Olin 194	No	MSL1	Yes	260C	30	3	Yes	No	Yes	Yes	Yes	Yes	10	N/A	0ppm	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
PMOS, SOIC	Si4xxxDY, SixxxEY, Si9xxxDY, Si9xxxEY	SI	Yes	Yes	Yes	No	Add "-E3" or"-Ge3" suffix	Pure Matte Tin	None	Copper Olin 194	No	MSL1	Yes	260C	30	3	Yes	No	Yes	Yes	Yes	Yes	10	N/A	0ppm	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
PMOS, ChipFET	Si5xxxDC	SI	Yes	Yes	Yes	No	Add "-E3" or"-Ge3" suffix	Pure Matte Tin	None	Copper Olin 194	No	MSL1	Yes	260C	30	3	Yes	No	Yes	Yes	Yes	Yes	10	N/A	0ppm	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
PMOS, ChipFET PowerPAK	Si5xxxDU	SI	Yes	Yes	Yes	No	Add "-E3" or"-Ge3" suffix	Pure Matte Tin	None	Copper Olin 194	No	MSL1	Yes	260C	30	3	Yes	No	Yes	Yes	Yes	Yes	10	N/A	0ppm	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
PMOS, TSSOP-8	Si6xxxDQ	SI	Yes	Yes	Yes	No	Add "-E3" or"-Ge3" suffix	Pure Matte Tin	None	Copper Olin 194	No	MSL1	Yes	260C	30	3	Yes	No	Yes	Yes	Yes	Yes	10	N/A	0ppm	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
PMOS, PowerPAK 1212	Si7xxxDN	SI	Yes	Yes	Yes	No	Add "-E3" or"-Ge3" suffix	Pure Matte Tin	None	Copper Olin 194	No	MSL1	Yes	260C	30	3	Yes	No	Yes	Yes	Yes	Yes	10	N/A	0ppm	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
PMOS, PowerPAK SO8	Si7xxxDP	SI	Yes	Yes	Yes	No	Add "-E3" or"-Ge3" suffix	Pure Matte Tin	None	Copper Olin 194	No	MSL1	Yes	260C	30	3	Yes	No	Yes	Yes	Yes	Yes	10	N/A	0ppm	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
PMOS, MicroFOOT	Si8xxxDB	SI	Yes	Yes	Yes	No	Add "-E1"suffix	Pure Matte Tin	N/A	N/A	No	MSL1	Yes	260C	30	3	Yes	No	Yes	Yes	Yes	Yes	10	N/A	0ppm	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
PMOS. PowerPAK MLF	SiCxxxxxxxx	SI	Yes	Yes	Yes	No	Add "-E3" or"-Ge3" suffix	Pure Matte Tin	None	Copper Olin 194	No	MSL1	Yes	260C	30	3	Yes	No	Yes	Yes	Yes	Yes	10	N/A	0ppm	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
PMOS, PolarPAK	SiExxxDF	SI	Yes	Yes	Yes	No	Add "-E3" or"-Ge3" suffix	Pure Matte Tin	None	Copper Olin 194	No	MSL1	Yes	260C	30	3	Yes	7a	Yes	Yes	Yes	Yes	10	N/A	0ppm	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
PMOS, PowerPAK 2 x 5	SiFxxxDZ	SI	Yes	Yes	Yes	No	Add "-E3" or"-Ge3" suffix	Pure Matte Tin	None	Copper Olin 194	No	MSL1	Yes	260C	30	3	Yes	No	Yes	Yes	Yes	Yes	10	N/A	83366 ppm	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
PMOS, TO-263	SUBxxxxxxx-xx, SUMxxxxxxx-xx	SI	Yes	Yes	Yes	No	Add "-E3" suffix	Pure Matte Tin	None	Copper Olin 194	No	MSL1	Yes	260C	30	3	Yes	7a	Yes	Yes	Yes	Yes	10	N/A	4,635ppm	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
PMOS, TO-252	SUDxxxxxxx-xx, SURxxxxxxx-xx	SI	Yes	Yes	Yes	No	Add "-E3" or"-Ge3" suffix	Pure Matte Tin	None	Copper Olin 194	No	MSL1	Yes	260C	30	3	Yes	7a	Yes	Yes	Yes	Yes	10	N/A	20,945ppm	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
PMOS, TO-220	SUPxxxxxxx-xx, SUNxxxxxxx-xx	SI	Yes	Yes	Yes	No	Add "-E3" or"-Ge3" suffix	Pure Matte Tin	None	Copper Olin 194	No	MSL1	Yes	260C	30	3	Yes	7a	Yes	Yes	Yes	Yes	10	N/A	5,041ppm	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
PMOS, TO-251	SUUxxxxxxx-xx	SI	Yes	Yes	Yes	No	Add "-E3" or"-Ge3" suffix	Pure Matte Tin	None	Copper Olin 194	No	MSL1	Yes	260C	30	3	Yes	7a	Yes	Yes	Yes	Yes	10	N/A	20,945ppm	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
PMOS, TO-262	SUVxxxxxxx-xx	SI	Yes	Yes	Yes	No	Add "-E3" suffix	Pure Matte Tin	None	Copper Olin 194	No	MSL1	Yes	260C	30	3	Yes	7a	Yes	Yes	Yes	Yes	10	N/A	4,635ppm	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
JFET's																																
JFET, Hermetic	CRxxx, PADxx, DPADx, 2Nxxx, Uxxx, VCRxxx	SI	Yes	Yes	Yes	No	Add "-E3" or"-Ge3" suffix	Pure Matte Tin	None	Kovar	No	MSL1	Yes	260C	30	3	Yes	No	Yes	Yes	Yes	Yes	10	N/A	0ppm	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
JFET, TO-92	Jxxx, JPADxx, PNxxxx	SI	Yes	Yes	Yes	No	Add "-E3" or"-Ge3" suffix	Pure Matte Tin	None	Alloy 42	No	MSL1	Yes	260C	30	3	Yes	No	Yes	Yes	Yes	Yes	10	N/A	0ppm	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
JFET, SOT-23	SSTxxx	SI	Yes	Yes	Yes	No	Add "-E3" or"-Ge3" suffix	Pure Matte Tin	None	Copper Olin 194	No	MSL1	Yes	260C	30	3	Yes	No	Yes	Yes	Yes	Yes	10	N/A	0ppm	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
JFET, SOIC	SSDTPADxxx	SI	Yes	Yes	Yes	No	Add "-E3" or"-Ge3" suffix	Pure Matte Tin	None	Copper Olin 194	No	MSL1	Yes	260C	30	3	Yes	No	Yes	Yes	Yes	Yes	10	N/A	0ppm	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
INTEGRATED CIRCUITS																																
LinIC, HV SOIC	DGxxxDY, DGxxxDW	SI	Yes	Yes	Yes	No	Add "-E3" suffix	Pure Matte Tin	None	Copper Olin 194	Yes	MSL1	Yes	260C	30	3	Yes	No	Yes	Yes	Yes	Yes	10	N/A	0ppm	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
LinIC, HV PDIP	DGxxxDJ	SI	Yes	Yes	Yes	No	Add "-E3" suffix	Pure Matte Tin	None	Copper Olin 194	Yes	MSL1	Yes	260C	30	3	Yes	No	Yes	Yes	Yes	Yes	10	N/A	0ppm	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
LinIC, HV TSSOP	DGxxxDQ	SI	Yes	Yes	Yes	No	Add "-E3" suffix	Pure Matte Tin	None	Copper Olin 194	Yes	MSL1	Yes	260C	30	3	Yes	No	Yes	Yes	Yes	Yes	10	N/A	0ppm	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
LinIC, HV PLCC	DGxxxDN	SI	Yes	Yes	Yes	No	Add "-E3" suffix	Pure Matte Tin	None	Copper Olin 194	Yes	MSL1	Yes	260C	30	3	Yes	No	Yes	Yes	Yes	Yes	10	N/A	0ppm	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
LinIC, LV miniQFN	DGxxxDN	SI	Yes	Yes	Yes	No	Add "-E4" or"-Ge4" suffix	Palladium Gold	Nickel	Copper Olin 194	No	MSL1	Yes	260C	30	3	Yes	No	Yes	Yes	Yes	Yes	10	N/A	0ppm	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
LinIC, LV MSOP	DGxxxxDQ	SI	Yes	Yes	Yes	No	Add "-E3" suffix	Pure Matte Tin	None	Copper Olin 194	No	MSL1	Yes	260C	30	3	Yes	No	Yes	Yes	Yes	Yes	10	N/A	0ppm	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
LinIC, LV TSOP	DGxxxxDV	SI	Yes	Yes	Yes	No	Add "-E3" suffix	Pure Matte Tin	None	Copper Olin 194	Yes	MSL1	Yes	260C	30	3	Yes	No	Yes	Yes	Yes	Yes	10	N/A	0ppm	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
LinIC, LV SC-89	DGxxxxDX	SI	Yes	Yes	Yes	No	Add "-E3" suffix	Pure Matte Tin	None	Copper Olin 194	No	MSL1	Yes	260C	30	3	Yes	No	Yes	Yes	Yes	Yes	10	N/A	0ppm	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
LinIC, LV SC-70	DGxxxxDL	SI	Yes	Yes	Yes	No	Add "-E3" or"-GE3" suffix	Pure Matte Tin	None	Copper Olin 194	Yes	MSL1	Yes	260C	30	3	Yes	No	Yes	Yes	Yes	Yes	10	N/A	0ppm	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
LinIC, LV QFN	DGxxxxDN	SI	Yes	Yes	Yes	No	Add "-E4" suffix	Palladium Gold	Nickel	Copper Olin 194	No	MSL1	Yes	260C	30	3	Yes	No	Yes	Yes	Yes	Yes	10	N/A	0ppm	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
LinIC, LV SOT-23	DGxxxxDS	SI	Yes	Yes	Yes	No	Add "-E3" suffix	Pure Matte Tin	None	Copper Olin 194	Yes	MSL1	Yes	260C	30	3	Yes	No	Yes	Yes	Yes	Yes	10	N/A	0ppm	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
LinIC, LV MicroFOOT	DGxxxxDB	SI	Yes	Yes	Yes	No	Add "-E1"suffix	Tin Silver Copper	None	N/A	No	MSL1	Yes	260C	30	3	Yes	No	Yes	Yes	Yes	Yes	10	N/A	0ppm	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
PIC, SSOP	Si786xxG, Si913xxG	SI	Yes	Yes	Yes	No	Add "-E3" suffix	Pure Matte Tin	None	Copper Olin 194	No	MSL1	Yes	260C	30	3	Yes	No	Yes	Yes	Yes	Yes	10	N/A	0ppm	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
PIC, MSOP	Si91xxxH, SiPxxxxH	SI	OBS	OBS	OBS	OBS	OBS	OBS	OBS	OBS	OBS	OBS	OBS	OBS	OBS	OBS	**OBS**	**OBS**	**OBS**	**OBS**	**OBS**	OBS	OBS	OBS	OBS	OBS	OBS	OBS	OBS	OBS	OBS	OBS
PIC, PDIP	Si91xxDJ	SI	Yes	Yes	Yes	No	Add "-E3" suffix	Pure Matte Tin	None	Copper Olin 194	Yes	MSL1	Yes	260C	30	3	Yes	No	Yes	Yes	Yes	Yes	10	N/A	0ppm	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
PIC, QSOP	SiPxxxxG	SI	OBS	OBS	OBS	OBS	OBS	OBS	OBS	OBS	OBS	OBS	OBS	OBS	OBS	OBS	**OBS**	**OBS**	**OBS**	**OBS**	**OBS**	OBS	OBS	OBS	OBS	OBS	OBS	OBS	OBS	OBS	OBS	OBS
PIC, MLP	Si91xxxDM, SiPxxxxDM	SI	OBS	OBS	OBS	OBS	OBS	OBS	OBS	OBS	OBS	OBS	OBS	OBS	OBS	OBS	**OBS**	**OBS**	**OBS**	**OBS**	**OBS**	OBS	OBS	OBS	OBS	OBS	OBS	OBS	OBS	OBS	OBS	OBS
PIC, PLCC	Si91xxDN	SI	Yes	Yes	Yes	No	Add "-E3" suffix	Pure Matte Tin	None	Copper Olin 194	No	MSL1	Yes	260C	30	3	Yes	No	Yes	Yes	Yes	Yes	10	N/A	0ppm	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
PIC, PowerPAK	Si91xxDLP, SiPxxxxDLP, Si91xxDMP, SiPxxxxDMP, SiPxxxDVP	SI	OBS	OBS	OBS	OBS	OBS	OBS	OBS	OBS	OBS	OBS	OBS	OBS	OBS	OBS	**OBS**	**OBS**	**OBS**	**OBS**	**OBS**	OBS	OBS	OBS	OBS	OBS	OBS	OBS	OBS	OBS	OBS	OBS
PIC, TDFN	SiPxxxxDNP	SI	Yes	Yes	Yes	No	Add "-GE4" suffix	Palladium Gold	Nickel	Copper Olin 194	No	MSL1	Yes	260C	30	3	Yes	No	Yes	Yes	Yes	Yes	10	N/A	0ppm	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
PIC, PPKSC75	SiPxxxxDVP	SI	Yes	Yes	Yes	No	Add "-E3" or"-GE3" suffix	Pure Matte Tin	None	Copper Olin 194	Yes	MSL1	Yes	260C	30	3	Yes	No	Yes	Yes	Yes	Yes	10	N/A	0ppm	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
PIC, TSSOP	Si91xxxQ, SiPxxxxxQ, SiPxxxxxDQP	SI	Yes	Yes	Yes	No	Add "-E3" suffix	Pure Matte Tin	None	Copper Olin 194	No	MSL1	Yes	260C	30	3	Yes	No	Yes	Yes	Yes	Yes	10	N/A	0ppm	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
PIC, SC-70	SiPxxxxDR	SI	Yes	Yes	Yes	No	Add "-E3" suffix	Pure Matte Tin	None	Copper Olin 194	No	MSL1	Yes	260C	30	3	Yes	No	Yes	Yes	Yes	Yes	10	N/A	0ppm	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
PIC, SQFP	Si99xxCS, SiPxxxxCS	SI	Yes	Yes	Yes	No	Add "-E3" suffix	Pure Matte Tin	None	Copper Olin 194	Yes	MSL1	Yes	260C	30	3	Yes	No	Yes	Yes	Yes	Yes	10	N/A	0ppm	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
PIC, SOT-23	Si91xxDT, SiPxxxxDT	SI	Yes	Yes	Yes	No	Add "-E3" suffix	Pure Matte Tin	None	Copper Olin 194	No	MSL1	Yes	260C	30	3	Yes	No	Yes	Yes	Yes	Yes	10	N/A	0ppm	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
PIC, SOIC	Si9xxxDW, Si9xxxDY, SiPxxxxDY	SI	Yes	Yes	Yes	No	Add "-E3" suffix	Pure Matte Tin	None	Copper Olin 194	Yes	MSL1	Yes	260C	30	3	Yes	No	Yes	Yes	Yes	Yes	10	N/A	0ppm	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
IPD, SOIC	SiCxxxCB	SI	Yes	Yes	Yes	No	Add "-E3" suffix	Pure Matte Tin	None	Copper Olin 194	No	MSL1	Yes	260C	30	3	Yes	No	Yes	Yes	Yes	Yes	10	N/A	0ppm	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
IPD, MLF	SiCxxxCD	SI	Yes	Yes	Yes	No	Add "-E3" or"-GE3" suffix	Pure Matte Tin	None	Copper Olin 194	No	MSL3	Yes	260C	30	3	Yes	7a	Yes	Yes	Yes	Yes	10	N/A	0ppm	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
HIREL	IC's, JFETS, MOSFETS	SI	Yes	Yes	Yes	No	Add "-E3" suffix	Pure Matte Tin	None	Kovar	No	MSL1	Yes	260C	30	3	Yes	7a	Yes	Yes	Yes	Yes	10	N/A	0ppm	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
FUNCTION PACK																																
Function PAK	FXxxxxxxxxxx	SI	OBS	OBS	OBS	OBS	OBS	OBS	OBS	OBS	OBS	OBS	OBS	OBS	OBS	OBS	**OBS**	**OBS**	**OBS**	**OBS**	**OBS**	OBS	OBS	OBS	OBS	OBS	OBS	OBS	OBS	OBS	OBS	OBS
HIGH VOLTAGE MOSFETS																																
HVM	TO-220	HVM	Yes	Yes	Yes	No	Add "-E3" suffix	Pure Matte Tin	None	Copper Olin 194	No	MSL1	Yes	260C	30	3	Yes	7a	Yes	Yes	Yes	Yes	10	N/A	5,041ppm	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
HVM	TO-247	HVM	Yes	Yes	Yes	No	Add "-E3" suffix	Pure Matte Tin	None	Copper Olin 194	No	MSL1	Yes	260C	30	3	Yes	No	Yes	Yes	Yes	Yes	10	N/A	0ppm	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
HVM	TO220 FULL PAK	HVM	Yes	Yes	Yes	No	Add "-E3" suffix	Pure Matte Tin	None	Copper Olin 194	No	MSL1	Yes	260C	30	3	Yes	7a	Yes	Yes	Yes	Yes	10	N/A	5,041ppm	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
HVM	TO-262	HVM	Yes	Yes	Yes	No	Add "-E3" suffix	Pure Matte Tin	None	Copper Olin 194	No	MSL1	Yes	260C	30	3	Yes	7a	Yes	Yes	Yes	Yes	10	N/A	4,635ppm	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
HVM	D2PAK	HVM	Yes	Yes	Yes	No	Add "-E3" suffix	Pure Matte Tin	None	Copper Olin 194	No	MSL1	Yes	260C	30	3	Yes	7a	Yes	Yes	Yes	Yes	10	N/A	4,635ppm	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
HVM	D-Pak	HVM	Yes	Yes	Yes	No	Add "-E3" suffix	Pure Matte Tin	None	Copper Olin 194	No	MSL1	Yes	260C	30	3	Yes	7a	Yes	Yes	Yes	Yes	10	N/A	5,041ppm	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
HVM	Super247	HVM	Yes	Yes	Yes	No	Add "-E3" suffix	Pure Matte Tin	None	Copper Olin 194	No	MSL1	Yes	260C	30	3	Yes	No	Yes	Yes	Yes	Yes	10	N/A	0ppm	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
HVM	SOT223	HVM	Yes	Yes	Yes	No	Add "-E3" suffix	Pure Matte Tin	None	Copper Olin 194	No	MSL1	Yes	260C	30	3	Yes	No	Yes	Yes	Yes	Yes	10	N/A	0ppm	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
HVM	HEXDIP	HVM	Yes	Yes	Yes	No	Add "-E3" suffix	Pure Matte Tin	None	Copper Olin 194	No	MSL1	Yes	260C	30	3	Yes	No	Yes	Yes	Yes	Yes	10	N/A	0ppm	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
HVM	IPAK	HVM	Yes	Yes	Yes	No	Add "-E3" suffix	Pure Matte Tin	None	Copper Olin 194	No	MSL1	Yes	260C	30	3	Yes	7a	Yes	Yes	Yes	Yes	10	N/A	5,041ppm	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
SMALL SIGNAL PRODUCTS																																
Glass products	DO 35 (except 1N4148)	SSP	Yes	Yes	Yes	No	www.vishay.com	SnAg3,5	N/A	Cu, NiFe core	No	MSL1	Yes	260C	30	3	Yes	7c	Yes	Yes	Yes				X							
Glass products	DO 35 (1N4148)	SSP	Yes	Yes	Yes	No	www.vishay.com	Sn	N/A	Cu, Fe core	No	MSL1	Yes	260C	30	3	Yes	7c	Yes	Yes	Yes				X							
Glass products	DO41	SSP	Yes	Yes	Yes	No	www.vishay.com	SnAg3,5	N/A	Cu, NiFe core	No	MSL1	Yes	260C	30	3	Yes	7c	Yes	Yes	Yes				X							
Glass products	SOD 80, SOD80Q (except TLZ series)	SSP	Yes	Yes	Yes	No	www.vishay.com	SnAg2,5	N/A	Cu, NiFe core	No	MSL1	Yes	260C	30	3	Yes	7c	Yes	Yes	Yes				X							
Glass products	SOD80 TLZ series	SSP	Yes	Yes	Yes	No	www.vishay.com	SnAg2,5	N/A	Cu, NiFe core	No	MSL1	Yes	260C	30	3	Yes	7c	Yes	Yes	Yes				X							
Glass products	MicroMELF(except MCL series)	SSP	Yes	Yes	Yes	No	www.vishay.com	SnAg2,5	N/A	Cu, NiFe core	No	MSL1	Yes	260C	30	3	Yes	7c	Yes	Yes	Yes				X							
Glass products	MicroMELF(MCL series)	SSP	Yes	Yes	Yes	No	www.vishay.com	SnAg2,5	N/A	Cu, NiFe core	No	MSL1	Yes	260C	30	3	Yes	7c	Yes	Yes	Yes				X							
Glassbead Diodes	DOT 30B, SOD 57, SOD 64	SSP	Yes	Yes	Yes	No	www.vishay.com	SnAg3,5	N/A	Cu, Fe core	No	MSL1	Yes	260C	30	3	Yes	37	Yes	Yes	Yes				X							
Plastic products	DO 213 AB Plastic (GLL 47xx)	SSP	Yes	Yes	Yes	No	www.vishay.com	Matte Sn	N/A	CuNi	No	MSL1	Yes	260C	30	3	Yes	7a	Yes	Yes	Yes				X							
Plastic products	SMA-Zener (SML 47xx)	SSP	Yes	Yes	Yes	No	www.vishay.com	Matte Sn	N/A	Cu	No	MSL1	Yes	260C	30	3	Yes	7a	Yes	Yes	Yes				X							
Plastic products	SOT 143,TO 50, SOT 3xx, SOT490	SSP	Yes	Yes	Yes	No	www.vishay.com	Matte Sn	N/A	Cu	No	MSL1	Yes	260C	30	3	Yes		Yes	Yes	Yes											
Plastic products	SOD523	SSP	Yes	Yes	Yes	No	www.vishay.com	Matte Sn	N/A	NiFeAg	No	MSL1	Yes	260C	30	3	Yes		Yes	Yes	Yes											
Plastic products	SOD923	SSP	Yes	Yes	Yes	No	www.vishay.com	Matte Sn	N/A	NiFeAg	No	MSL1	Yes	260C	30	3	Yes		Yes	Yes	Yes											
Plastic products	LLP	SSP	Yes	Yes	Yes	No	www.vishay.com	NiPdAu	N/A	Cu alloy	No	MSL1	Yes	260C	30	3	Yes		Yes	Yes	Yes											
Plastic products	SOT 23-V, SOD 123-V,323-V (except: Sw)	SSP	Yes	Yes	Yes	No	www.vishay.com	Matte Sn	N/A	FeNi42, Cu plated	No	MSL1	Yes	260C	30	3	Yes		Yes	Yes	Yes											
Plastic products	SOT 23-V, SOD 123-V,323-V (Sw)	SSP	Yes	Yes	Yes	No	www.vishay.com	Matte Sn	N/A	FeNi42, Cu plated	No	MSL1	Yes	260C	30	3	Yes		Yes	Yes	Yes											
Plastic products	DO219 (Except Sw GP SMF ECO and Znr SMF DO219 ECO)	SSP	Yes	Yes	Yes	No	www.vishay.com	Matte Sn	N/A	Cu alloy	No	MSL1	Yes	260C	30	3	Yes	7a	Yes	Yes	Yes				X							
Plastic products	DO219 (Sw GP SMF ECO and Znr SMF DO219 ECO)	SSP	Yes	Yes	Yes	No	www.vishay.com	Matte Sn	N/A	Cu alloy	No	MSL1	Yes	260C	30	3	Yes	7a	Yes	Yes	Yes				X							
Plastic products	DO 214-Zener	SSP	Yes	Yes	Yes	No	www.vishay.com	Matte Sn	N/A	Cu alloy	No	MSL1	Yes	260C	30	3	Yes	7a	Yes	Yes	Yes				X							
Plastic products	TO 220	SSP	Yes	Yes	Yes	No	www.vishay.com	Matte Sn	N/A	Cu	No	MSL1	Yes	260C	30	3	Yes		Yes	Yes	Yes											
MELF glass	DO 213 AB (glass)	SSP	Yes	Yes	Yes	No	www.vishay.com	SnAg2,5	N/A	Cu, NiFe core	No	MSL1	Yes	260C	30	3	Yes	7c	Yes	Yes	Yes				X							
OPTO																																
LED leaded	TLXXXXXX	OPTO	Yes	Yes	Yes	Y	www.vishay.com	Ag, Matte Sn, Hot Dipped SnCu	Ag/Ag /NO	Cu alloy, Fe alloy	No	N/A	Yes	N/A	N/A	N/A	Yes	No	Yes	Yes	Yes	Yes	N/A	None	0ppm	0ppm	0ppm	0ppm	0ppm	0ppm		
LED SMD	TLMXXXXX	OPTO	Yes	Yes	Yes	Y	www.vishay.com	Matte Sn, NiPdAu	None	Cu alloy	No	2, 2a	Yes	240, 260	0, 10	2	Yes	No	Yes	Yes	Yes	Yes	N/A	None	0ppm	0ppm	0ppm	0ppm	0ppm	0ppm		
LED SMD	VLMxxxx	OPTO	Yes	Yes	Yes	Y	www.vishay.com	Matte Sn	None	Cu alloy	No	2, 2a, 3, 4	Yes	260C	0	2	Yes	No	Yes	Yes	Yes	Yes	N/A	None	0ppm	0ppm	0ppm	0ppm	0ppm	0ppm		
Displays	TDSXXXXX	OPTO	Yes	Yes	Yes	Y	www.vishay.com	Ag	None	Cu alloy	No	N/A	Yes	N/A	N/A	N/A	Yes	No	Yes	Yes	Yes	Yes	N/A	None	0ppm	0ppm	0ppm	0ppm	0ppm	0ppm		
IR SMD	TEMXXXXX, TSMXXXXX	OPTO	Yes	Yes	Yes	Y	www.vishay.com	Matte Sn, NiAu	None	Cu alloy	No	2, 3, 4	Yes	240, 260	0, 10	0, 2	Yes	No	Yes	Yes	Yes	Yes	N/A	None	0ppm	0ppm	0ppm	0ppm	0ppm	0ppm		
IR Receiver leaded	TSOP11XX-17XX, TSOP2XXX, TSOP311XX-317XX, TSOP4XXX, TSOP34XXX, TSOP7XXX, TSOP38XXX,	OPTO	Yes	Yes	Yes	Y	www.vishay.com	Sn	Ag	Cu alloy, Fe alloy	No	N/A	Yes	N/A	N/A	N/A	Yes	No	Yes	Yes	Yes	Yes	N/A	None	0ppm	0ppm	0ppm	0ppm	0ppm	0ppm		
IR Receiver SMD	TSOP61XX, TSOP62XX, TSOP361XX, TSOP362XX, TSOP5700, TSOP52XX	OPTO	Yes	Yes	Yes	Y	www.vishay.com	Matte Sn	Ag	Cu alloy	No	4	Yes	260C	0	2	Yes	No	Yes	Yes	Yes	Yes	N/A	None	0ppm	0ppm	0ppm	0ppm	0ppm	0ppm		
IRDC - LF	TFDUXXXX,	OPTO	Yes	Yes	Yes	Y	www.vishay.com	Matte Sn	Ag	Cu alloy	No	4	Yes	260C	0, 10	2	Yes	No	Yes	Yes	Yes	Yes	N/A	None	0ppm	0ppm	0ppm	0ppm	0ppm	0ppm		
IRDC - PCB	TFBSXXXX	OPTO	Yes	Yes	Yes	Y	www.vishay.com	Au	Nickel	PCB	No	4	Yes	260C	0	2	Yes	No	Yes	Yes	Yes	Yes	N/A	None	0ppm	0ppm	0ppm	0ppm	0ppm	0ppm		
IR LED-DET leaded-1,8/3/5 mm	TSXXXXXX, TESTXXXX, TEFTXXXX	OPTO	Yes	Yes	Yes	Y	www.vishay.com	Sn, Ag, SnAgCu, Hot Dipped SnCu	Ag/Ag /NO	Cu alloy, Fe alloy	No	N/A	Yes	N/A	N/A	N/A	Yes	No	Yes	Yes	Yes	Yes	N/A	None	0ppm	0ppm	0ppm	0ppm	0ppm	0ppm		
Side view lens	TEKSXXXX, TSKSXXXX	OPTO	Yes	Yes	Yes	Y	www.vishay.com	Matte Sn	Ag	Cu alloy	No	N/A	Yes	N/A	N/A	N/A	Yes	No	Yes	Yes	Yes	Yes	N/A	None	0ppm	0ppm	0ppm	0ppm	0ppm	0ppm		
Coupler&SSR SMD	TCMTXXXX, TCLTXXXX, Miniflat, Flatpack, SO8, SFHXXXX	OPTO	Yes	Yes	Yes	Y	www.vishay.com	Matte Sn	None	Cu alloy, Fe alloy	No	MSL1	Yes	240, 260	0, 10	2	Yes	No	Yes	Yes	Yes	Yes	N/A	None	0ppm	0ppm	0ppm	0ppm	0ppm	0ppm		
Coupler&SSR leaded	SFHXXX, TCETXXXX, TCDTXXXX, DIP4/8/16, DIP6	OPTO	Yes	Yes	Yes	Y	www.vishay.com	Matte Sn	None	Cu alloy, Fe alloy	No	MSL1	Yes	N/A	N/A	N/A	Yes	No	Yes	Yes	Yes	Yes	N/A	None	0ppm	0ppm	0ppm	0ppm	0ppm	0ppm		
Sensor Assy	TCSTXXXX, TCRTXXXX	OPTO	Yes	Yes	Yes	Y	www.vishay.com	Ag, Sn, SnAgCu	Ag/Ag /NO	Cu alloy, Fe alloy	No	N/A	Yes	N/A	N/A	N/A	Yes	No	Yes	Yes	Yes	Yes	N/A	None	0ppm	0ppm	0ppm	0ppm	0ppm	0ppm		
Photo Detector	IE7 - TO18	OPTO	Yes	Yes	Yes	Y	www.vishay.com	Ag, Au	None	N/A	No	N/A	Yes	N/A	N/A	N/A	Yes	No	Yes	Yes	Yes	Yes	N/A	None	0ppm	0ppm	0ppm	0ppm	0ppm	0ppm		
Photo Detector	PD73 - TO18	OPTO	Yes	Yes	Yes	Y	www.vishay.com	Ag	None	N/A	No	N/A	Yes	N/A	N/A	N/A	Yes	No	Yes	Yes	Yes	Yes	N/A	None	0ppm	0ppm	0ppm	0ppm	0ppm	0ppm		
POWER DIODES																																
PPAK	TO-220 - COMMERCIAL	PDD	2/06	Yes	Yes	No change	http://www.vishay.com/co	Sn	N/A	Cu	No	N/A	Yes	N/A	N/A	N/A	Yes	Yes	Yes	Yes	Yes	NO	50	Pb in HT solder DA, Pb in	X	0ppm	0ppm	0ppm	0ppm	0ppm	PDD-39-2003	Apr. 24, 2006
PPAK	TO262 - COMMERCIAL	PDD	2/06	Yes	Yes	No change	http://www.vishay.com/co	Sn	N/A	Cu	No	N/A	Yes	N/A	N/A	N/A	Yes	Yes	Yes	Yes	Yes	NO	50	Pb in HT solder DA, Pb in	X	0ppm	0ppm	0ppm	0ppm	0ppm	PDD-39-2003	Apr. 24, 2006
PPAK	T03P - COMMERCIAL	PDD	2/06	Yes	Yes	No change	http://www.vishay.com/co	Sn	N/A	Cu	No	N/A	Yes	N/A	N/A	N/A	Yes	Yes	Yes	Yes	Yes	NO	50	Pb in HT solder DA, Pb in	X	0ppm	0ppm	0ppm	0ppm	0ppm	PDD-39-2003	Apr. 24, 2006
PPAK	IT0220 - COMMERCIAL	PDD	2/06	Yes	Yes	No change	http://www.vishay.com/co	Sn	N/A	Cu	No	N/A	Yes	N/A	N/A	N/A	Yes	Yes	Yes	Yes	Yes	NO	50	Pb in HT solder DA, Pb in	X	0ppm	0ppm	0ppm	0ppm	0ppm	PDD-39-2003	Apr. 24, 2006
PPAK	TO-263 - COMMERCIAL alphasem	PDD	2/06	Yes	Yes	No change	http://www.vishay.com/co	Sn	Nickel	Cu	No	MSL1	Yes	245	30	3	Yes	Yes	Yes	Yes	Yes	NO	50	Pb in HT solder DA, Pb in	X	0ppm	0ppm	0ppm	0ppm	0ppm	PDD-39-2003	Apr. 24, 2006
PPAK	TO-263 - COMMERCIAL wirebond	PDD	2/06	Yes	Yes	No change	http://www.vishay.com/co	Sn	N/A	Cu	No	MSL1	Yes	245	30	3	Yes	Yes	Yes	Yes	Yes	NO	50	Pb in HT solder DA, Pb in	X	0ppm	0ppm	0ppm	0ppm	0ppm	PDD-39-2003	Apr. 24, 2006
PPAK	TO-220 - AUTOMOTIVE	PDD	3/06	Yes	Yes	No change	http://www.vishay.com/co	Sn	N/A	Cu	No	N/A	Yes	N/A	N/A	N/A	Yes	Yes	Yes	Yes	Yes	NO	50	Pb in HT solder DA, Pb in	X	0ppm	0ppm	0ppm	0ppm	0ppm	PDD-39-2003	Apr. 24, 2006
PPAK	ITO-220 - AUTOMOTIVE	PDD	3/06	Yes	Yes	No change	http://www.vishay.com/co	Sn	N/A	Cu	No	N/A	Yes	N/A	N/A	N/A	Yes	Yes	Yes	Yes	Yes	NO	50	Pb in HT solder DA, Pb in	X	0ppm	0ppm	0ppm	0ppm	0ppm	PDD-39-2003	Apr. 24, 2006
PPAK	TO-263 - AUTOMOTIVE	PDD	3/06	Yes	Yes	No change	http://www.vishay.com/co	Sn	Nickel	Cu	No	MSL1	Yes	245	30	3	Yes	Yes	Yes	Yes	Yes	NO	50	Pb in HT solder DA, Pb in	X	0ppm	0ppm	0ppm	0ppm	0ppm	PDD-39-2003	Apr. 24, 2006
Bridge	GSIB4, DFM, MBM, GBL, GBU, GSIB - Commercial	PDD	2/06	Yes	Yes	No change	http://www.vishay.com/co	Sn	N/A	Cu	No	N/A	Yes	N/A	N/A	N/A	Yes	Yes	Yes	Yes	Yes	NO	50	Pb in HT solder DA, Pb in	X	0ppm	0ppm	0ppm	0ppm	0ppm	PDD-39-2003	Apr. 24, 2006
Bridge	MBS, DFS - COMMERCIAL	PDD	2/06	Yes	Yes	No change	http://www.vishay.com/co	Sn	N/A	Cu	No	N/A	Yes	N/A	N/A	N/A	Yes	Yes	Yes	Yes	Yes	NO	50	Pb in HT solder DA, Pb in	X	0ppm	0ppm	0ppm	0ppm	0ppm	PDD-39-2003	Apr. 24, 2006
Bridge	KBPM, KBL, KBU, ~~BC~~, GBPC (Wire Lead Type), WOG - Commercial	PDD	NA	Yes	Yes	No change	http://www.vishay.com/co	Ag	N/A	Cu	No	N/A	Yes	N/A	N/A	N/A	Yes	Yes	Yes	Yes	Yes	NO	50	Pb in HT solder DA, Pb in	X	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
Bridge	GBPC (terminal Type) - COMMERCIAL	PDD	NA	Yes	Yes	No change	http://www.vishay.com/co	Ni	N/A	Cu	No	N/A	Yes	N/A	N/A	N/A	Yes	Yes	Yes	Yes	Yes	NO	50	Pb in HT solder DA, Pb in	X	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
SMP RECT	SMP, SMPC, MICRO SMP - COMMERCIAL	PDD	2/06	Yes	Yes	No change	http://www.vishay.com/co	Sn	N/A	Cu	No	MSL1	Yes	260C	30	3	Yes	Yes	Yes	Yes	Yes	NO	50	Pb in HT solder DA, Pb in	X	0ppm	0ppm	0ppm	0ppm	0ppm	PDD-39-2003	Apr. 24, 2006
SMP TVS	SMP, SMPC, MICRO SMP - COMMERCIAL	PDD	2/06	Yes	Yes	No change	http://www.vishay.com/co	Sn	N/A	Cu	No	MSL1	Yes	260C	30	3	Yes	Yes	Yes	Yes	Yes	NO	50	Pb in HT solder DA, Pb in	X	0ppm	0ppm	0ppm	0ppm	0ppm	PDD-39-2003	Apr. 24, 2006
SMP RECT	SMP, SMPC, MICRO SMP - AUTOMOTIVE	PDD	3/06	Yes	Yes	No change	http://www.vishay.com/co	Sn	N/A	Cu	No	MSL1	Yes	260C	30	3	Yes	Yes	Yes	Yes	Yes	NO	50	Pb in HT solder DA, Pb in	X	0ppm	0ppm	0ppm	0ppm	0ppm	PDD-39-2003	Apr. 24, 2006
SMP TVS	SMP, SMPC, MICRO SMP - AUTOMOTIVE	PDD	3/06	Yes	Yes	No change	http://www.vishay.com/co	Sn	N/A	Cu	No	MSL1	Yes	260C	30	3	Yes	Yes	Yes	Yes	Yes	NO	50	Pb in HT solder DA, Pb in	X	0ppm	0ppm	0ppm	0ppm	0ppm	PDD-39-2003	Apr. 24, 2006
SMX RECT	SMA, SMB, SMC - COMMERCIAL	PDD	2/06	Yes	Yes	No change	http://www.vishay.com/co	Sn	N/A	Cu	No	MSL1	Yes	260C	30	3	Yes	Yes	Yes	Yes	Yes	NO	50	Pb in HT solder DA, Pb in	X	0ppm	0ppm	0ppm	0ppm	0ppm	PDD-39-2003	Apr. 24, 2006
SMX TVS	SMA, SMB, SMC - COMMERCIAL	PDD	2/06	Yes	Yes	No change	http://www.vishay.com/co	Sn	N/A	Cu	No	MSL1	Yes	260C	30	3	Yes	Yes	Yes	Yes	Yes	NO	50	Pb in HT solder DA, Pb in	X	0ppm	0ppm	0ppm	0ppm	0ppm	PDD-39-2003	Apr. 24, 2006
SMX RECT	SMA, SMB, SMC - AUTOMOTIVE	PDD	3/06	Yes	Yes	No change	http://www.vishay.com/co	Sn	N/A	Cu	No	MSL1	Yes	260C	30	3	Yes	Yes	Yes	Yes	Yes	NO	50	Pb in HT solder DA, Pb in	X	0ppm	0ppm	0ppm	0ppm	0ppm	PDD-39-2003	Apr. 24, 2006
SMX TVS	SMA, SMB, SMC - AUTOMOTIVE	PDD	3/06	Yes	Yes	No change	http://www.vishay.com/co	Sn	N/A	Cu	No	MSL1	Yes	260C	30	3	Yes	Yes	Yes	Yes	Yes	NO	50	Pb in HT solder DA, Pb in	X	0ppm	0ppm	0ppm	0ppm	0ppm	PDD-39-2003	Apr. 24, 2006
AR TVS	D0218 LOAD DUMP - AUTOMOTIVE	PDD	3/06	Yes	Yes	No change	http://www.vishay.com/co	Sn	Nickel	Cu	No	MSL1	Yes	245	30	3	Yes	Yes	Yes	Yes	Yes	NO	50	Pb in HT solder DA, Pb in	X	0ppm	0ppm	0ppm	0ppm	0ppm	PDD-39-2003	Apr. 24, 2006
MELF RECT	GL41/GL34 - COMMERCIAL	PDD	2/06	Yes	Yes	No change	http://www.vishay.com/co	Sn	N/A	Cu	No	MSL1	Yes	250 / 260	30	3	Yes	Yes	Yes	Yes	Yes	NO	50	Pb in passivation glass	X	0ppm	0ppm	0ppm	0ppm	0ppm	PDD-39-2003	Apr. 24, 2006
MELF RECT SKY	SGL41 - COMMERCIAL	PDD	2/06	Yes	Yes	No change	http://www.vishay.com/co	Sn	Nickel	Cu	No	MSL1	Yes	250 / 260	30	3	Yes	Yes	Yes	Yes	Yes	NO	50	Pb in HT solder DA, Pb in	X	0ppm	0ppm	0ppm	0ppm	0ppm	PDD-39-2003	Apr. 24, 2006
MELF RECT	GL41/GL34 - AUTOMOTIVE	PDD	3/06	Yes	Yes	No change	http://www.vishay.com/co	Sn	N/A	Cu	No	MSL1	Yes	250 / 260	30	3	Yes	Yes	Yes	Yes	Yes	NO	50	Pb in passivation glass	X	0ppm	0ppm	0ppm	0ppm	0ppm	PDD-39-2003	Apr. 24, 2006
MELF RECT SKY	SGL41 - AUTOMOTIVE	PDD	3/06	Yes	Yes	No change	http://www.vishay.com/co	Sn	Nickel	Cu	No	MSL1	Yes	250 / 260	30	3	Yes	Yes	Yes	Yes	Yes	NO	50	Pb in HT solder DA, Pb in	X	0ppm	0ppm	0ppm	0ppm	0ppm	PDD-39-2003	Apr. 24, 2006
MELF TVS	GL41 - COMMERCIAL	PDD	2/06	Yes	Yes	No change	http://www.vishay.com/co	Sn	Nickel	Cu	No	MSL1	Yes	250	30	3	Yes	Yes	Yes	Yes	Yes	NO	50	Pb in passivation glass	X	0ppm	0ppm	0ppm	0ppm	0ppm	PDD-39-2003	Apr. 24, 2006
SMD RECT	GF1 - COMMERCIAL	PDD	2/06	Yes	Yes	No change	http://www.vishay.com/co	Sn	N/A	Cu	No	MSL1	Yes	250	30	3	Yes	Yes	Yes	Yes	Yes	NO	50	Pb in passivation glass	X	0ppm	0ppm	0ppm	0ppm	0ppm	PDD-39-2003	Apr. 24, 2006
SMD RECT	GF1 - AUTOMOTIVE	PDD	3/06	Yes	Yes	No change	http://www.vishay.com/co	Sn	N/A	Cu	No	MSL1	Yes	250	30	3	Yes	Yes	Yes	Yes	Yes	NO	50	Pb in passivation glass	X	0ppm	0ppm	0ppm	0ppm	0ppm	PDD-39-2003	Apr. 24, 2006
Axial RECT	PLASTIC, GPP, SKY, FER, IN DO41, DO15, DO201AD, MPG06, P600 - Commercial	PDD	2/06	Yes	Yes	No change	http://www.vishay.com/co	Sn	N/A	Cu	No	N/A	Yes	N/A	N/A	N/A	Yes	Yes	Yes	Yes	Yes	NO	50	Pb in HT solder DA, Pb in	X	0ppm	0ppm	0ppm	0ppm	0ppm	PDD-39-2003	Apr. 24, 2006
Axial TVS	GPP TVS P4KE, P6KE, 1.5KE - COMMERCIAL	PDD	2/06	Yes	Yes	No change	http://www.vishay.com/co	Sn	N/A	Cu	No	N/A	Yes	N/A	N/A	N/A	Yes	Yes	Yes	Yes	Yes	NO	50	Pb in HT solder DA, Pb in	X	0ppm	0ppm	0ppm	0ppm	0ppm	PDD-39-2003	Apr. 24, 2006
Axial TVS	5KP - COMMERCIAL	PDD	2/06	Yes	Yes	No change	http://www.vishay.com/co	Sn	N/A	Cu	No	N/A	Yes	N/A	N/A	N/A	Yes	Yes	Yes	Yes	Yes	NO	50	Pb in HT solder DA, Pb in	X	0ppm	0ppm	0ppm	0ppm	0ppm	PDD-39-2003	Apr. 24, 2006
Axial RECT	MPG06, SMPG06 - AUTOMOTIVE	PDD	3/06	Yes	Yes	No change	http://www.vishay.com/co	Sn	N/A	Cu	No	N/A	Yes	N/A	N/A	N/A	Yes	Yes	Yes	Yes	Yes	NO	50	Pb in HT solder DA, Pb in	X	0ppm	0ppm	0ppm	0ppm	0ppm	PDD-39-2003	Apr. 24, 2006
Axial TVS	GPP TVS P4KE, P6KE, 1.5KE, PAR TVS, - AUTOMOTIVE	PDD	3/06	Yes	Yes	No change	http://www.vishay.com/co	Sn	N/A	Cu	No	N/A	Yes	N/A	N/A	N/A	Yes	Yes	Yes	Yes	Yes	NO	50	Pb in HT solder DA, Pb in	X	0ppm	0ppm	0ppm	0ppm	0ppm	PDD-39-2003	Apr. 24, 2006
Axial RECT SUPER	GP/EGP - COMMERCIAL	PDD	2/06	Yes	Yes	No change	http://www.vishay.com/co	Sn	N/A	Cu	No	N/A	Yes	N/A	N/A	N/A	Yes	Yes	Yes	Yes	Yes	NO	50	Pb in passivation glass	X	0ppm	0ppm	0ppm	0ppm	0ppm	PDD-39-2003	Apr. 24, 2006
Axial RECT SUPER	GP/EGP - AUTOMOTIVE	PDD	3/06	Yes	Yes	No change	http://www.vishay.com/co	Sn	N/A	Cu	No	N/A	Yes	N/A	N/A	N/A	Yes	Yes	Yes	Yes	Yes	NO	50	Pb in passivation glass	X	0ppm	0ppm	0ppm	0ppm	0ppm	PDD-39-2003	Apr. 24, 2006
HIGH POWER DIODES																																
BRIDGES	MB	HPP	No	Yes	NA	e4	www.vishay.com	Ni 2-5um	None	Cu	No	N/A	NA	N/A	N/A	NA	Yes	5,6,7	N	Yes	Q3/2005	NO	N/A	Die, Solder, Terminals	X	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
BRIDGES	MT	HPP	No	Yes	NA	e4	www.vishay.com	Ni/Au 2-5um	Nickel	Cu	No	N/A	NA	N/A	N/A	NA	Yes	5,6,7	N	Yes	Q3/2005	NO	N/A	Die, Solder, Terminals	X	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
BRIDGES	GBPC	HPP	No	Yes	NA	e4	www.vishay.com	Ni 2-5um	None	Cu	No	N/A	NA	N/A	N/A	NA	Yes	5,6,7	N	Yes	Q3/2005	NO	N/A	Die, Solder, Terminals	X	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A

Vishay Lead-Free Family Summary Sheet - Active Components

Product Description			IPC/JEDEC Standard 609A - Pb Free "2nd-Level Interconnect" Status									Soldering & Reflow Profile					RoHS Status					China Pollution Act Information (ST/T11363-2006) - China RoHS Status									PCN Status	
Technology/ Product Line	Product Family	Vishay Division	Pb-free Qualification Report Available (Yes/No)	Pb-free Samples Available (Yes/No)	Pb-free Mass Production (Q/Y)	Pb/Pb-free Material Code Marking	How to Order Lead Free Part (Web)	Termination Plating Finish	Plating Underlayer	Terminals Base Material/Alloy	Tin Lead (SnPb) Products/Termination available (Yes/No)	J-STD-020 Moisture Sensitivity Level Rating	Backward Compatibility	Peak Reflow Temperature (Deg C)	Time @ Peak Reflow Temperature (sec)	Maximum Number of Cycles Allowed @ Peak Reflow Temperature	RoHS Compliant (Yes/No/YwE)	Exemptions Used (Exemption # only)	RoHS Qualification Report Available (Yes/No)	RoHS Compliant Samples Available (Yes/No)	RoHS Compliant Mass Production (Q/Y)	China ROHS Compliant (YES/NO) 符合 中国 RoHS (是/否)	EPUP (YEARS) 环保使用期限 (年)	Location of Hazardous Substance(s) 有毒有害物质 所在部件	Pb 铅 X for C>MCV O for C<MCV 0,1 wt% (SJ/T11363-2006)	Hg 汞 X for C>MCV O for C<MCV 0,1 wt% (SJ/T11363-2006)	Cd 镉 X for C>MCV O for C<MCV 0,01 wt% (SJ/T11363-2006)	Cr(VI) 六价铬 X for C>MCV O for C<MCV 0,1 wt% (SJ/T11363-2006)	PBB 多溴联苯 X for C>MCV O for C<MCV 0,1 wt% (SJ/T11363-2006)	PBDE 多溴二苯醚 X for C>MCV O for C<MCV 0,1 wt% (SJ/T11363-2006)	Product Change Notification No# / Ref#	Product Change Notification Date
BRIDGES	KBPC 6 / 8	HPP	No	Yes	NA	e4	www.vishay.com	Ni 2-5um	None	Cu	No	N/A	NA	N/A	N/A	NA	Yes	5,6,7	N	Yes	Q3/2005	NO	N/A	Die, Solder, Terminals	X	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
BRIDGES	LPB - 1KAB	HPP	No	Yes	NA	e3	www.vishay.com	Sn 2-5um	None	Cu	No	N/A	NA	N/A	N/A	NA	Yes	5,6,7	N	Yes	Q3/2005	NO	N/A	Die, Solder, Terminals	X	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
BRIDGES	LPB - 2KBB	HPP	No	Yes	NA	e3	www.vishay.com	Sn 2-5um	None	Cu	No	N/A	NA	N/A	N/A	NA	Yes	5,6,7	N	Yes	Q3/2005	NO	N/A	Die, Solder, Terminals	X	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
BRIDGES	LPB - 2KBP	HPP	No	Yes	NA	e3	www.vishay.com	Sn 2-5um	None	Cu	No	N/A	NA	N/A	N/A	NA	Yes	5,6,7	N	Yes	Q3/2005	NO	N/A	Die, Solder, Terminals	X	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
BRIDGES	LPB - KBPC1	HPP	No	Yes	NA	e4	www.vishay.com	Ni 2-5um	None	Cu	No	N/A	NA	N/A	N/A	NA	Yes	5,6,7	N	Yes	Q3/2005	NO	N/A	Die, Solder, Terminals	X	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
BRIDGES	LPB - 2KBBR	HPP	No	Yes	NA	e3	www.vishay.com	Sn 2-5um	None	Cu	No	N/A	NA	N/A	N/A	NA	Yes	5,6,7	N	Yes	Q3/2005	NO	N/A	Die, Solder, Terminals	X	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
BRIDGES	RBV (SIP)	HPP	No	Yes	NA	e3	www.vishay.com	Sn 2-5um	None	Cu	No	N/A	NA	N/A	N/A	NA	Yes	5,7	N	Yes	Q3/2005	NO	N/A	Die, Solder	X	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
DISCRETES	METAL DO-4	HPP	No	Yes	NA	e3	www.vishay.com	Sn 2-5um	Nickel	Cu	No	N/A	NA	N/A	N/A	NA	Yes	5,6,7	N	Yes	Q3/2005	NO	N/A	Die, Solder, Glass metal seal	X	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
DISCRETES	METAL DO-5	HPP	No	Yes	NA	e3	www.vishay.com	Sn 2-5um	Nickel	Cu	No	N/A	NA	N/A	N/A	NA	Yes	5,6,7	N	Yes	Q3/2005	NO	N/A	Die, Solder, Glass metal seal	X	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
DISCRETES	PLASTIC DO-5	HPP	No	Yes	NA	e3	www.vishay.com	Sn 2-5um	Nickel	Cu	No	N/A	NA	N/A	N/A	NA	Yes	5,6,7	N	Yes	Q3/2005	NO	N/A	Die, Solder	X	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
DISCRETES	ALLOY STUDS - DO-8	HPP	No	Yes	NA	e4	www.vishay.com	Ni 2-5um	None	Cu	No	N/A	NA	N/A	N/A	NA	Yes	6,7	N	Yes	Q3/2005	NO	N/A	Solder, Glass metal seal cap	X	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
DISCRETES	ALLOY STUDS - DO-9	HPP	No	Yes	NA	e4	www.vishay.com	Ni 2-5um	None	Cu	No	N/A	NA	N/A	N/A	NA	Yes	6,7	N	Yes	Q3/2005	NO	N/A	Solder, Glass metal seal cap	X	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
DISCRETES	ROUND BRAZED STUDS - DO-8	HPP	No	Yes	NA	e4	www.vishay.com	Ni 2-5um	None	Cu	No	N/A	NA	N/A	N/A	NA	Yes	6,7	N	Yes	Q3/2005	NO	N/A	Solder, Glass metal seal cap	X	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
DISCRETES	ROUND BRAZED STUDS - DO-9	HPP	No	Yes	NA	e4	www.vishay.com	Ni 2-5um	None	Cu	No	N/A	NA	N/A	N/A	NA	Yes	6,7	N	Yes	Q3/2005	NO	N/A	Solder, Glass metal seal cap	X	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
DISCRETES	COMPRESSED STUDS (DO-30)	HPP	Yes	Yes	NA	e4	www.vishay.com	Ni 2-5um	None	Cu	No	N/A	NA	N/A	N/A	NA	Yes	6	N	Yes	Q3/2005	NO	N/A	Glass metal seal cap	X	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
DISCRETES	COMPRESSED STUDS (DO-9)	HPP	Yes	Yes	NA	e4	www.vishay.com	Ni 2-5um	None	Cu	No	N/A	NA	N/A	N/A	NA	Yes	6	N	Yes	Q3/2005	NO	N/A	Glass metal seal cap	X	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
DISCRETES	COMPRESSED STUDS (B-8)	HPP	Yes	Yes	NA	e4	www.vishay.com	Ni 2-5um	None	Cu	No	N/A	NA	N/A	N/A	NA	Yes	6	N	Yes	Q3/2005	NO	N/A	Glass metal seal cap	X	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
DISCRETES	COMPRESSED STUDS (TO-93C)	HPP	Yes	Yes	NA	e4	www.vishay.com	Ni 2-5um	None	Cu	No	N/A	NA	N/A	N/A	NA	Yes	NA	N	Yes	Q3/2005	NO	N/A	N/A	0ppm	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
DISCRETES	COMPRESSED STUDS (TO-118)	HPP	Yes	Yes	NA	e4	www.vishay.com	Ni 2-5um	None	Cu	No	N/A	NA	N/A	N/A	NA	Yes	NA	N	Yes	Q3/2005	NO	N/A	N/A	0ppm	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
DISCRETES	SQUARE BRAZED STUDS (TO-94)	HPP	No	Yes	NA	e4	www.vishay.com	Ni 2-5um	None	Cu	No	N/A	NA	N/A	N/A	NA	Yes	5,6,7	N	Yes	Q3/2005	NO	N/A	Die, Solder, Glass metal seal cap	X	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
DISCRETES	SQUARE BRAZED STUDS (TO-93)	HPP	No	Yes	NA	e4	www.vishay.com	Ni 2-5um	None	Cu	No	N/A	NA	N/A	N/A	NA	Yes	5,6,7	N	Yes	Q3/2005	NO	N/A	Die, Solder, Glass metal seal cap	X	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
DISCRETES	TO-48	HPP	No	Yes	NA	e3	www.vishay.com	Sn 2-5um	Nickel	Cu	No	N/A	NA	N/A	N/A	NA	Yes	5,6,7	N	Yes	Q3/2005	NO	N/A	Die, Solder, Glass metal seal cap	X	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
DISCRETES	TO-65	HPP	No	Yes	NA	e3	www.vishay.com	Sn 2-5um	Nickel	Cu	No	N/A	NA	N/A	N/A	NA	Yes	5,6,7	N	Yes	Q3/2005	NO	N/A	Die, Solder, Glass metal seal cap	X	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
DISCRETES	8AF (B-47)	HPP	No	Yes	NA	e4	www.vishay.com	Ni 2-5um	None	Cu	No	N/A	NA	N/A	N/A	NA	Yes	5,7	N	Yes	Q3/2005	NO	N/A	Solder	X	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
MODULES	T-MODULES - DIODES	HPP	No	Yes	NA	e4	www.vishay.com	Ni 2-5um	None	Cu	No	N/A	NA	N/A	N/A	NA	Yes	5,7	N	Yes	Q3/2005	NO	N/A	Solder	X	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
MODULES	T-MODULES - SCRs	HPP	No	Yes	NA	e4	www.vishay.com	Ni 2-5um	None	Cu	No	N/A	NA	N/A	N/A	NA	Yes	5,7	N	Yes	Q3/2005	NO	N/A	Solder	X	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
MODULES	PACE - PAK	HPP	No	Yes	NA	e4	www.vishay.com	Ni 2-5um	None	Cu	No	N/A	NA	N/A	N/A	NA	Yes	5,7	N	Yes	Q3/2005	NO	N/A	Solder	X	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
MODULES	INT-A-PAK	HPP	Yes	Yes	NA	e4	www.vishay.com	Ni 2-5um	None	Cu	No	N/A	NA	N/A	N/A	NA	Yes	NA	N	Yes	Q3/2005	NO	N/A	N/A	0ppm	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
MODULES	MAGN-A-PAK	HPP	Yes	Yes	NA	e4	www.vishay.com	Ni 2-5um	None	Cu	No	N/A	NA	N/A	N/A	NA	Yes	NA	N	Yes	Q3/2005	NO	N/A	N/A	0ppm	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
MODULES	SUPER MAGN-A-PAK	HPP	Yes	Yes	NA	e4	www.vishay.com	Ni 2-5um	None	Cu	No	N/A	NA	N/A	N/A	NA	Yes	NA	N	Yes	Q3/2005	NO	N/A	N/A	0ppm	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
MODULES	D-67 R	HPP	No	Yes	NA	e4	www.vishay.com	Ni 2-5um	None	Cu	No	N/A	NA	N/A	N/A	NA	Yes	5,6,7	N	Yes	Q3/2005	NO	N/A	Die, Solder, Terminals	X	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
MODULES	INT-A-PAK (DBC)	HPP	Yes	Yes	NA	e4	www.vishay.com	Ni 2-5um	None	Cu	No	N/A	NA	N/A	N/A	NA	Yes	NA	N	Yes	Q3/2005	NO	N/A	N/A	0ppm	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
HOCKY - PUKS	A-PUK	HPP	Yes	Yes	NA	e4	www.vishay.com	Ni 2-5um	None	Cu	No	N/A	NA	N/A	N/A	NA	Yes	NA	N	Yes	Q3/2005	NO	N/A	N/A	0ppm	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
HOCKY - PUKS	E-PUK	HPP	Yes	Yes	NA	e4	www.vishay.com	Ni 2-5um	None	Cu	No	N/A	NA	N/A	N/A	NA	Yes	NA	N	Yes	Q3/2005	NO	N/A	N/A	0ppm	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
HOCKY - PUKS	B-PUK	HPP	Yes	Yes	NA	e4	www.vishay.com	Ni 2-5um	None	Cu	No	N/A	NA	N/A	N/A	NA	Yes	NA	N	Yes	Q3/2005	NO	N/A	N/A	0ppm	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
HOCKY - PUKS	K-PUK	HPP	Yes	Yes	NA	e4	www.vishay.com	Ni 2-5um	None	Cu	No	N/A	NA	N/A	N/A	NA	Yes	NA	N	Yes	Q3/2005	NO	N/A	N/A	0ppm	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
HOCKY - PUKS	T-PUK	HPP	Yes	Yes	NA	e4	www.vishay.com	Ni 2-5um	None	Cu	No	N/A	NA	N/A	N/A	NA	Yes	NA	N	Yes	Q3/2005	NO	N/A	N/A	0ppm	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
SMA	SMA	HPP	Yes	Yes	Q2/2007	e3	www.vishay.com	Sn	N/A	Cu alloy	No	MSL1	Yes	260C	10	3	Yes	7a	Yes	Yes	Q2/2007	NO	N/A	Die Attach	X	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
SMA	SMB	HPP	Yes	Yes	Q2/2007	e3	www.vishay.com	Sn	N/A	Cu alloy	No	MSL1	Yes	260C	10	3	Yes	7a	Yes	Yes	Q2/2007	NO	N/A	Die Attach	X	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
SMA	SMC	HPP	Yes	Yes	Q2/2007	e3	www.vishay.com	Sn	N/A	Cu alloy	No	MSL1	Yes	260C	10	3	Yes	7a	Yes	Yes	Q2/2007	NO	N/A	Die Attach	X	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
SMA	AXIAL DO-41	HPP	Yes	Yes	Q2/2007	e3	www.vishay.com	Sn	N/A	Cu alloy	No	N/A	Yes	N/A	N/A	NA	Yes	7a	Yes	Yes	Q2/2007	NO	N/A	Die Attach	X	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
SMA	DO-201	HPP	Yes	Yes	Q2/2007	e3	www.vishay.com	Sn	N/A	Cu alloy	No	N/A	Yes	N/A	N/A	NA	Yes	7a	Yes	Yes	Q2/2007	NO	N/A	Die Attach	X	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
DO204	DO-204AR	HPP	Yes	Yes	Q2/2007	e3	www.vishay.com	Sn	N/A	Cu alloy	No	N/A	Yes	N/A	N/A	NA	Yes	7a	Yes	Yes	Q2/2007	NO	N/A	Die Attach	X	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
SOD-SOT	SOD123	HPP	Yes	No	Q2/2007	e3	NA	Sn	N/A	Cu alloy	No	MSL1	Yes	260C	10	3	Yes	NA	Yes	NO	Q2/2007	NO	N/A	N/A	0ppm	0ppm	0ppm	0ppm	0ppm	0ppm	2009-Rev-00	5-Oct-09
SOD-SOT	SOD323	HPP	Yes	No	Q2/2007	e3	NA	Sn	N/A	Cu alloy	No	MSL1	Yes	260C	10	3	Yes	NA	Yes	NO	Q2/2007	NO	N/A	N/A	0ppm	0ppm	0ppm	0ppm	0ppm	0ppm	2009-Rev-00	5-Oct-09
SOD-SOT	SOT23	HPP	Yes	No	Q2/2007	e3	NA	Sn	N/A	Cu alloy	No	MSL1	Yes	260C	10	3	Yes	NA	Yes	NO	Q2/2007	NO	N/A	N/A	0ppm	0ppm	0ppm	0ppm	0ppm	0ppm	2009-Rev-00	5-Oct-09
SOD-SOT	SOT323	HPP	Yes	No	Q2/2007	e3	NA	Sn	N/A	Cu alloy	No	MSL1	Yes	260C	10	3	Yes	NA	Yes	NO	Q2/2007	NO	N/A	N/A	0ppm	0ppm	0ppm	0ppm	0ppm	0ppm	2009-Rev-00	5-Oct-09
SOT223	SOT223	HPP	Yes	No	Q2/2007	e3	NA	Sn	N/A	Cu alloy	No	MSL1	Yes	260C	10	3	Yes	7a	Yes	NO	Q2/2007	NO	N/A	N/A	0ppm	0ppm	0ppm	0ppm	0ppm	0ppm	2009-Rev-00	5-Oct-09
DPAK	DPAK	HPP	Yes	Yes	Q2/2007	e3	www.vishay.com	Sn	Nickel	Cu alloy	No	MSL1	Yes	260C	10	3	Yes	7a	Yes	Yes	Q2/2007	NO	N/A	Die Attach	X	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
XIAN DISCRETES	POWIRTAB	HPP	Yes	Yes	Q2/2007	e3	www.vishay.com	Sn	Nickel	Cu alloy	No	N/A	Yes	N/A	N/A	NA	Yes	NA	Yes	Yes	Q2/2007	NO	N/A	N/A	0ppm	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
XIAN DISCRETES	TO-220	HPP	Yes	Yes	Q2/2007	e3	www.vishay.com	Sn	Nickel	Cu alloy	No	N/A	Yes	N/A	N/A	NA	Yes	NA	Yes	Yes	Q2/2007	NO	N/A	N/A	0ppm	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
XIAN DISCRETES	TO-247	HPP	Yes	Yes	Q2/2007	e3	www.vishay.com	Sn	Nickel	Cu alloy	No	N/A	Yes	N/A	N/A	NA	Yes	NA	Yes	Yes	Q2/2007	NO	N/A	N/A	0ppm	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
XIAN DISCRETES	SUPPER-247	HPP	Yes	Yes	Q2/2007	e3	www.vishay.com	Sn	Nickel	Cu alloy	No	N/A	Yes	N/A	N/A	NA	Yes	NA	Yes	Yes	Q2/2007	NO	N/A	N/A	0ppm	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
XIAN DISCRETES	TO220-FULLPAK	HPP	Yes	Yes	Q2/2007	e3	www.vishay.com	Sn	Nickel	Cu alloy	No	N/A	Yes	N/A	N/A	NA	Yes	NA	Yes	Yes	Q2/2007	NO	N/A	N/A	0ppm	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
XIAN DISCRETES	D2PAKPBF	HPP	Yes	Yes	Q2/2007	e3	www.vishay.com	Sn	Nickel	Cu alloy	No	MSL1	Yes	260C	10	3	Yes	7a	Yes	Yes	Q2/2007	NO	N/A	Die Attach	X	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
MODULES - IGBT	SIP (six pack inverter)	HPP	Yes	Yes	Q2/2005	e3	www.vishay.com	Sn	Ni 2-5um	Cu	No	N/A	NA	N/A	N/A	NA	Yes	NA	N	Yes	Q2/2005	NO	N/A	N/A	0ppm	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
MODULES - IGBT	SIP (custom configurations)	HPP	Yes	Yes	Q2/2005	e3	www.vishay.com	Sn	Ni 2-5um	Cu	No	N/A	NA	N/A	N/A	NA	Yes	NA	N	Yes	Q2/2005	NO	N/A	N/A	0ppm	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
MODULES - IGBT	MTP Half-bridge	HPP	Yes	Yes	Q2/2005	e3	www.vishay.com	Sn	Ni 2-5um	Cu	No	N/A	NA	N/A	N/A	NA	Yes	NA	N	Yes	Q2/2005	NO	N/A	N/A	0ppm	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
MODULES - IGBT	MTP Full-bridge	HPP	Yes	Yes	Q2/2005	e3	www.vishay.com	Sn	Ni 2-5um	Cu	No	N/A	NA	N/A	N/A	NA	Yes	NA	N	Yes	Q2/2005	NO	N/A	N/A	0ppm	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
MODULES - IGBT	MTP Chopper	HPP	Yes	Yes	Q2/2005	e3	www.vishay.com	Sn	Ni 2-5um	Cu	No	N/A	NA	N/A	N/A	NA	Yes	NA	N	Yes	Q2/2005	NO	N/A	N/A	0ppm	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
MODULES - IGBT	MTP Customized configuration	HPP	Yes	Yes	Q2/2005	e3	www.vishay.com	Sn	Ni 2-5um	Cu	No	N/A	NA	N/A	N/A	NA	Yes	NA	N	Yes	Q2/2005	NO	N/A	N/A	0ppm	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
MODULES - IGBT	IAP Half-bridge	HPP	Yes	Yes	Q2/2005	NA	www.vishay.com	Ni 2-5um	None	Cu	No	N/A	NA	N/A	N/A	NA	Yes	NA	N	Yes	Q2/2005	NO	N/A	N/A	0ppm	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
MODULES - IGBT	IAP Single Switch	HPP	Yes	Yes	Q2/2005	NA	www.vishay.com	Ni 2-5um	None	Cu	No	N/A	NA	N/A	N/A	NA	Yes	NA	N	Yes	Q2/2005	NO	N/A	N/A	0ppm	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
MODULES - IGBT	IAP Customized configuration	HPP	Yes	Yes	Q2/2005	NA	www.vishay.com	Ni 2-5um	None	Cu	No	N/A	NA	N/A	N/A	NA	Yes	NA	N	Yes	Q2/2005	NO	N/A	N/A	0ppm	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
MODULES - IGBT	ECONO-2 6-pak Inverter	HPP	Yes	Yes	Q2/2005	e3	www.vishay.com	Sn	Ni 2-5um	Cu	No	N/A	NA	N/A	N/A	NA	Yes	NA	N	Yes	Q2/2005	NO	N/A	N/A	0ppm	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
MODULES - IGBT	ECONO-2 4-Pak	HPP	Yes	Yes	Q2/2005	e3	www.vishay.com	Sn	Ni 2-5um	Cu	No	N/A	NA	N/A	N/A	NA	Yes	NA	N	Yes	Q2/2005	NO	N/A	N/A	0ppm	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
MODULES - IGBT	ECONO-2 PIM (Bridge-Brake-Inverter)	HPP	Yes	Yes	Q2/2005	e3	www.vishay.com	Sn	Ni 2-5um	Cu	No	N/A	NA	N/A	N/A	NA	Yes	NA	N	Yes	Q2/2005	NO	N/A	N/A	0ppm	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
MODULES - IGBT	ECONO-2 Customized configuration	HPP	Yes	Yes	Q2/2005	e3	www.vishay.com	Sn	Ni 2-5um	Cu	No	N/A	NA	N/A	N/A	NA	Yes	NA	N	Yes	Q2/2005	NO	N/A	N/A	0ppm	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
MODULES - IGBT	SOT227 Single Switch	HPP	Yes	Yes	Q2/2005	NA	www.vishay.com	Ni 2-5um	None	Cu	No	N/A	NA	N/A	N/A	NA	Yes	NA	N	Yes	Q2/2005	NO	N/A	N/A	0ppm	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
MODULES - IGBT	SOT227 Chopper	HPP	Yes	Yes	Q2/2005	NA	www.vishay.com	Ni 2-5um	None	Cu	No	N/A	NA	N/A	N/A	NA	Yes	NA	N	Yes	Q2/2005	NO	N/A	N/A	0ppm	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
MODULES Diodes -SCR	AAP Common cathode	HPP	Yes	Yes	Q2/2005	NA	www.vishay.com	Ni Plated 2-5um	None	Cu	No	N/A	NA	N/A	N/A	NA	Yes	5	N	Yes	Q2/2005	NO	N/A	Die	X	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
MODULES Diodes -SCR	AAP Common Anode	HPP	Yes	Yes	Q2/2005	NA	www.vishay.com	Ni Plated 2-5um	None	Cu	No	N/A	NA	N/A	N/A	NA	Yes	5	N	Yes	Q2/2005	NO	N/A	Die	X	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
MODULES Diodes -SCR	AAP Half Bridge	HPP	Yes	Yes	Q2/2005	NA	www.vishay.com	Ni Plated 2-5um	None	Cu	No	N/A	NA	N/A	N/A	NA	Yes	5	N	Yes	Q2/2005	NO	N/A	Die	X	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
MODULES Diodes -SCR	AAP Doubler	HPP	Yes	Yes	Q2/2005	NA	www.vishay.com	Ni Plated 2-5um	None	Cu	No	N/A	NA	N/A	N/A	NA	Yes	5	N	Yes	Q2/2005	NO	N/A	Die	X	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
MODULES Diodes -SCR	AAP Schottky	HPP	Yes	Yes	Q2/2005	NA	www.vishay.com	Ni Plated 2-5um	None	Cu	No	N/A	NA	N/A	N/A	NA	Yes	NA	N	Yes	Q2/2005	NO	N/A	N/A	0ppm	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
MODULES Diodes -SCR	AAP Ultrafast diode	HPP	Yes	Yes	Q2/2005	NA	www.vishay.com	Ni Plated 2-5um	None	Cu	No	N/A	NA	N/A	N/A	NA	Yes	NA	N	Yes	Q2/2005	NO	N/A	N/A	0ppm	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
MODULES Diodes -SCR	IAP Common Anode	HPP	Yes	Yes	Q2/2005	NA	www.vishay.com	Ni 2-5um	None	Cu	No	N/A	NA	N/A	N/A	NA	Yes	5	N	Yes	Q2/2005	NO	N/A	Die	X	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
MODULES Diodes -SCR	IAP Common Cathode	HPP	Yes	Yes	Q2/2005	NA	www.vishay.com	Ni 2-5um	None	Cu	No	N/A	NA	N/A	N/A	NA	Yes	5	N	Yes	Q2/2005	NO	N/A	Die	X	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
MODULES Diodes -SCR	IAP Half Bridge	HPP	Yes	Yes	Q2/2005	NA	www.vishay.com	Ni 2-5um	None	Cu	No	N/A	NA	N/A	N/A	NA	Yes	5	N	Yes	Q2/2005	NO	N/A	Die	X	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
MODULES Diodes -SCR	IAP Doubler	HPP	Yes	Yes	Q2/2005	NA	www.vishay.com	Ni 2-5um	None	Cu	No	N/A	NA	N/A	N/A	NA	Yes	5	N	Yes	Q2/2005	NO	N/A	Die	X	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
MODULES Diodes -SCR	IAP Ultrafast diode	HPP	Yes	Yes	Q2/2005	NA	www.vishay.com	Ni 2-5um	None	Cu	No	N/A	NA	N/A	N/A	NA	Yes	NA	N	Yes	Q2/2005	NO	N/A	Die	X	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
MODULES Diodes -SCR	MTK 3 Ph diodes bridge	HPP	Yes	Yes	Q2/2005	NA	www.vishay.com	Ni 2-5um	None	Cu	No	N/A	NA	N/A	N/A	NA	Yes	5	N	Yes	Q2/2005	NO	N/A	Die	X	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
MODULES Diodes -SCR	MTK AC switch	HPP	Yes	Yes	Q2/2005	NA	www.vishay.com	Ni 2-5um	None	Cu	No	N/A	NA	N/A	N/A	NA	Yes	5	N	Yes	Q2/2005	NO	N/A	Die	X	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
MODULES Diodes -SCR	MTK 3 ph Bridges Semi/Total controlled	HPP	Yes	Yes	Q2/2005	NA	www.vishay.com	Ni 2-5um	None	Cu	No	N/A	NA	N/A	N/A	NA	Yes	5	N	Yes	Q2/2005	NO	N/A	Die	X	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
MODULES Diodes -SCR	MTP 3phase diodes bridges	HPP	Yes	Yes	Q2/2005	e3	www.vishay.com	Sn	Ni 2-5um	Cu	No	N/A	NA	N/A	N/A	NA	Yes	5	N	Yes	Q2/2005	NO	N/A	Die	X	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
MODULES Diodes -SCR	SOT227 single rectifier	HPP	Yes	Yes	Q2/2005	NA	www.vishay.com	Ni 2-5um	None	Cu	No	N/A	NA	N/A	N/A	NA	Yes	5	N	Yes	Q2/2005	NO	N/A	Die	X	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
MODULES Diodes -SCR	SOT227 Ultrafast diodes	HPP	Yes	Yes	Q2/2005	NA	www.vishay.com	Ni 2-5um	None	Cu	No	N/A	NA	N/A	N/A	NA	Yes	NA	N	Yes	Q2/2005	NO	N/A	N/A	0ppm	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
MODULES Diodes -SCR	SOT227 Custom configurations	HPP	Yes	Yes	Q2/2005	NA	www.vishay.com	Ni 2-5um	None	Cu	No	N/A	NA	N/A	N/A	NA	Yes	5	N	Yes	Q2/2005	NO	N/A	Die	X	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
MODULES Diodes -SCR	TO244 Schottky	HPP	Yes	Yes	Q2/2005	NA	www.vishay.com	Ni 2-5um	Cu	Cu	No	N/A	NA	N/A	N/A	NA	Yes	NA	N	Yes	Q2/2005	NO	N/A	N/A	0ppm	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
MODULES Diodes -SCR	TO244 Ultrafast diodes	HPP	Yes	Yes	Q2/2005	NA	www.vishay.com	Ni 2-5um	Cu	Cu	No	N/A	NA	N/A	N/A	NA	Yes	NA	N	Yes	Q2/2005	NO	N/A	N/A	0ppm	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
MODULES Diodes -SCR	HALF-PAK Scottky	HPP	Yes	Yes	Q2/2005	NA	www.vishay.com	Ni 2-5um	None	Cu	No	N/A	NA	N/A	N/A	NA	Yes	NA	N	Yes	Q2/2005	NO	N/A	N/A	0ppm	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A
MODULES Diodes -SCR	HALF-PAK Ultrafast diodes	HPP	Yes	Yes	Q2/2005	NA	www.vishay.com	Ni 2-5um	None	Cu	No	N/A	NA	N/A	N/A	NA	Yes	NA	N	Yes	Q2/2005	NO	N/A	N/A	0ppm	0ppm	0ppm	0ppm	0ppm	0ppm	N/A	N/A

Notes:
NA indicates that the item is not applicable (I.e. not converting to Pb-Free)
○：表示该有毒有害物质在该部件所有均质材料中的含量均在SJ/T11363-2006 标准规定的限量要求以下。 indicate all homogeneous materials' hazardous substances content are below the ST/T11363-2006 MCV limit
×：表示该有毒有害物质至少在该部件的某一均质材料中的含量超出SJ/T11363-2006标准规定的限量要求。indicates that the hazardous substance content contained in any one of the homogeneous materials of the part exceeded the MCV limits specified in the Standard SJ/T 11363-2006
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