

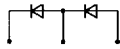
Schottky Diodes



Type	V_{RRM}	I_{FAV} @ T_C $d=0.5$	T_C	V_F @ I_F max. $T_{VJM} = 125^\circ C$	I_F	E_{AS}	I_{AR}	T_{VJM}	R_{thJC}	No. of Usg.	Package style
New	V	A	$^\circ C$	V	A	mJ	A	$^\circ C$	K/W		Outline drawings on page 91-100
DSSK 80-0008D	8	2x40	135	0.23	40	tbd	tbd	150	0.8	6	Fig. 2 TO-252 AA Weight = 0.3 g
DSS 2x200-0008D *		2x200	100	0.15	100	tbd	tbd	180	0.4	12	
DSS 20-0015B	15	20	135	0.33	20	tbd	tbd	150	1.4	4	Fig. 3 TO-220AB Weight = 4 g
DSSK 40-0015B		2x20	135	0.32	20	tbd	tbd	150	1.4	6	
DSSK 70-0015B		2x35	130	0.33	35	tbd	tbd	150	1.1	6	
DSS 25-0025B	25	25	125	0.44	25	tbd	tbd	150	1.4	4	Fig. 4 TO-220 AC Weight = 2 g
DSSK 48-0025B		2x25	130	0.35	20	tbd	tbd	150	1.2	3	
DSSK 50-0025B		2x25	125	0.42	25	tbd	tbd	150	1.4	6	
DSSK 80-0025B		2x40	130	0.39	40	10	6.0	150	0.8	6	
DSSK 48-003B	30	2x25	130	0.35	20	tbd	tbd	150	1.2	6	Fig. 5a TO-263AB Weight = 2 g
DSSK 48-003BS		2x25	130	0.35	20	tbd	tbd	150	1.2	5a	
DSSK 80-003B		2x40	130	0.39	40	10	6.0	150	0.8	6	
DSS 6-0045AS	45	6	160	0.53	6	24	1.3	175	3.0	2	Fig. 6 TO-247 AD Weight = 6 g
DSS 10-0045A		10	160	0.58	10	24	1.3	175	1.7	4	
DSS 10-0045B		10	135	0.45	10	24	1.3	150	1.7	4	
DSS 16-0045A		16	160	0.57	15	32	1.5	175	1.4	4	
DSS 16-0045AS		16	160	0.57	15	32	1.5	175	1.4	5a	
DSS 16-0045B		16	130	0.42	15	32	1.5	150	1.4	4	
DSS 25-0045A		25	155	0.59	25	46	1.8	175	1.1	4	
DSS 60-0045B		60	100	0.57	60	57	2.0	150	0.8	8	
DSSK 20-0045A		2x10	160	0.58	10	24	1.3	175	1.7	3	
DSSK 20-0045B		2x10	135	0.45	10	24	1.3	150	1.7	3	
DSSK 28-0045A		2x14	160	0.57	15	32	1.5	175	1.4	3	
DSSK 28-0045B		2x14	135	0.42	15	32	1.5	150	1.4	3	
DSSK 28-0045BS		2x14	135	0.42	15	32	1.5	150	1.4	5a	
DSSK 30-0045A		2x15	160	0.57	15	32	1.5	175	1.4	6	
DSSK 30-0045B		2x15	135	0.41	15	32	1.5	150	1.4	6	
DSSK 60-0045A		2x30	150	0.60	30	46	1.8	175	1.1	6	
DSSK 60-0045B		2x30	120	0.44	30	46	1.8	150	1.1	6	
DSSK 80-0045B		2x40	125	0.45	40	57	2.0	150	0.8	6	
DSS 2x61-0045A		2x60	105	0.66	60	57	2.0	150	0.8	12	
DSS 2x81-0045B	2x80	75	0.64	80	57	2.0	150	0.8	12		
DSS 2x121-0045B	2x120	100	0.59	120	112	2.8	150	0.4	12		
DSS 2x160-0045A*	2x160	100	0.73	160	112	2.8	150	0.3	12		
DSSK 28-006B	60	2x15	135	0.52	15	tbd	tbd	150	1.1	3	Fig. 12 SOT-227B miniBLOC Weight = 30 g
DSSK 28-006BS		2x15	135	0.52	15	tbd	tbd	150	1.1	5a	
DSSK 40-006B		2x20	130	0.50	20	tbd	tbd	150	1.1	6	
DSSK 80-006B		2x40	120	0.51	40	tbd	tbd	150	0.8	6	
DSSK 40-008B	80	2x20	130	0.57	20	tbd	tbd	150	1.1	6	Fig. 83 ISOPLUS220™ Weight = 2 g
DSSK 70-008A		2x35	150	0.66	35	tbd	tbd	175	0.8	6	
DSSK 2x111-008A		2x110	105	0.72	100	19	1.4	150	0.4	12	
FSS 100-008A		85	90	0.80	75	tbd	tbd	175	1.4	86	
DSS 10-01A	100	10	160	0.65	10	7	0.8	175	1.7	4	Fig. 86 ISOPLUS i4-PAC™ Weight = 9 g
DSS 10-01AS		10	160	0.65	10	7	0.8	175	1.7	5a	
DSS 16-01A		16	155	0.64	15	10	1.0	175	1.4	4	
DSS 16-01AS		16	155	0.64	15	10	1.0	175	1.4	5a	
DSS 20-01AC		20	140	0.65	10	7	0.8	175	1.7	83	
DSSK 16-01A		2x8	165	0.65	10	7	0.8	175	1.7	3	
DSSK 16-01AS		2x8	165	0.65	10	7	0.8	175	1.7	5a	
DSSK 16-01C		2x8	165	0.65	10	7	0.8	175	1.7	3	
DSSK 28-01A		2x15	155	0.64	15	10	1.0	175	1.4	3	
DSSK 28-01AS		2x15	155	0.64	15	10	1.0	175	1.4	5a	
DSSK 30-01A		2x15	160	0.64	15	10	1.0	175	1.4	6	
DSSK 50-01A		2x25	155	0.65	25	13	1.1	175	1.1	6	
DSS 2x41-01A		2x40	110	0.70	40	13	1.1	150	1.1	12	
DSS 2x61-01A		2x60	105	0.73	60	16	1.2	150	0.8	12	
DSS 2x160-01A*	2x160	95	0.80	160	31	1.7	150	0.30	12		

Data per Diode unless otherwise specified
* non isolated base plate

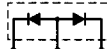
Schottky Diodes



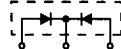
DSEE...



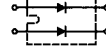
DSS..



DSEA...



DSSK...



DSS 2x..



DSS 2x..

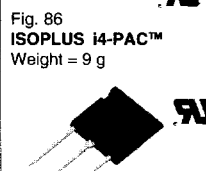
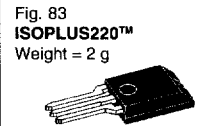
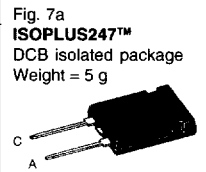
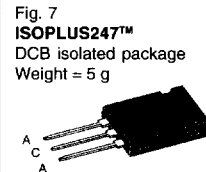
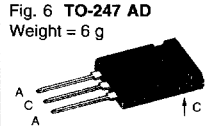
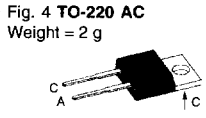
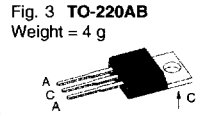
Type	V_{RRM}	I_{FAV} @ T_C $d=0.5$	T_C	V_F @ I_F max. $T_{VJM} = 125^\circ C$	I_F	E_{AS}	I_{AR}	T_{VJM}	R_{thJC}	Fig. No.	Package style
	V	A	$^\circ C$	V	A	mJ	A	$^\circ C$	K/W		Outline drawings on page 91-100
DSSK 20-013A DSSK 60-013A	130	2x10 2x30	165 155	0.65 0.69	10 30	tbd tbd	tbd tbd	175 175	1.4 0.8	3 6	Fig. 3 TO-220AB Weight = 4 g
DSSK 20-015A DSSK 60-015A DSSK 60-015AR	150	2x10 2x30 2x30	165 155 155	0.65 0.69 0.69	10 30 30	tbd tbd tbd	tbd tbd tbd	175 175 175	1.4 0.8 0.8	3 6 7	Fig. 4 TO-220 AC Weight = 2 g
DSS 2x101-015A	150	2x100	110	0.78	100	tbd	tbd	150	0.4	12	
DSSK 10-018A DSSK 30-018A	180	2x5 2x15	165 150	0.62 0.72	5 15	tbd tbd	tbd tbd	175 175	1.7 1.7	3 6	Fig. 6 TO-247 AD Weight = 6 g

Data per Diode unless otherwise specified

HiPerDyn™ FRED

Series connected diodes for high switching frequencies; packages isolated (2500 V_{RMS})

Type	V_{RRM}	I_{FAV} @ T_C $d=0.5$	T_C	V_F @ T_{VJ} max. $I_F = I_{FAV}$ $V_F = V_{FAV}$	T_{VJ}	t_{tr} typ. $T_{VJ} = 25^\circ C$	I_{RM} typ. @ $-di/dt$ $T_{VJ} = 100^\circ C$	T_{VJM}	R_{thJC}	Fig. No.
	V	A	$^\circ C$	V	$^\circ C$	ns	A A/ μs	$^\circ C$	K/W	
DSEP 9-06CR DSS 17-06CR	600	9 17	140 95	2.9 2.7	150 125	15 45	3.5 4.0	100 100	1.0 1.4	7a
DSEP 15-12CR DSEP 30-12CR	1200	15 30	130 115	2.7 3.1	150 150	20 20	4.0 4.0	100 100	1.0 0.6	
DSEP 2x35-06 C DSEP 2x25-12 C	600 1200	35 25	100 95	2.0 3.3	125 125	20 20	4.5 4.0	100 100	0.6 0.6	12



Dual Ultrafast Diodes

Series connected diodes for high switching frequencies with middle connection; packages isolated (2500 V_{RMS})

Type	V_{RRM}	I_{FAV} @ T_C $d=0.5$	T_C	V_F @ T_{VJ} $I_F = I_{FAV}$ $V_F = V_{FAV}$	T_{VJ}	t_{tr} typ. $T_{VJ} = 25^\circ C$	I_{RM} typ. @ $-di/dt$ $T_{VJ} = 100^\circ C$	T_{VJM}	R_{thJC}	Fig. No.
	V	A	$^\circ C$	V	$^\circ C$	ns	A A/ μs	$^\circ C$	K/W	
► New										
► DSEE 8-06CC ► DSEE 15-06CC ► DSEE 29-06CC	2x300	10 15 30	110 115 115	1.75 1.26 1.26	25 125 25	30 30 30	2 2 4.5	100 100 100	2.4 1.6 0.9	83
► DSEE 15-12CC ► DSEE 29-12CC	2x600	15 30	85 90	2.05 2.50	25 25	35 30	4 30	100 200	1.6 0.9	
► DSEE 55-24N1F	2x1200	53	90	2.50	25	220	79	750	0.63	86

Common anode connected

► DSEA 16-06AC ► DSEA 29-06AC ► DSEA 59-06BC	600	2x10 2x15 2x30	85 140 125	1.42 1.49 1.75	125 125 125	35 35 30	3.5 4 4	100 100 100	175 174 175	3 1.6 0.9	83
--	-----	----------------------	------------------	----------------------	-------------------	----------------	---------------	-------------------	-------------------	-----------------	----

Data according to IEC 60747 and refer to a single diode unless otherwise stated