

30 - 50 Volt MOSFETs

A series of low voltage MOSFETs containing high density planar devices optimized to provide low on-resistance with a low gate charge and trench MOSFETs. The trench MOSFETs enable much higher current handling capability in the packages on offer.

Typical applications include:-

- Non isolated DC-DC converter circuits
- Motor control
- Battery chargers
- Class D audio stages
- Battery pack switches
- Disconnect switches
- Hot-swap circuits
- CCFL backlight inverters

N-Channel

Part Number	Package	Polarity	BV _{DSS} V	I _D A	P _D W	R _{DS(on)} Max @		C _{iss} (typ) @ V _{DS} = 15V pF	Q _g (typ) @ V _{GS} = 10V nC
						V _{GS} = 4.5V Ω	V _{GS} = 10V Ω		
ZXMN3B04N8 (2)	SO8	N	30	7.6	2.5	0.025	-	-	-
ZXMN3A04DN8 (2)	SO8	2 x N	30	7.6	2.1	0.030	0.020	1800	35.7
ZXMN3A06DN8 (1)	SO8	2 x N	30	6.9	2.1	0.050	0.035	750	17.5
ZXMN3A02X8 (1)	MSOP8	N	30	6.7	1.8	0.035	0.025	1400	26.8
ZXM64N03X	MSOP8	N	30	5.0	1.8	0.060	0.045	970	22.0
ZXMN3A03E6 (1)	SOT23-6	N	30	4.6	1.7	0.065	0.050	600	12.6
ZXMN3A01E6 (1)	SOT23-6	N	30	3.0	1.7	0.180	0.120	190	3.9
ZXM62N03E6	SOT23-6	N	30	3.2	1.7	0.150	0.110	390	7.0
ZXMD63N03X	MSOP8	2 x N	30	2.3	1.25	0.200	0.135	300	6.1
ZXMN3A01F (1)	SOT23	N	30	2.0	0.8	0.180	0.120	190	3.9
ZXM61N03F	SOT23	N	30	1.4	0.8	0.300	0.220	160	3.2
ZXM64N035L3 (1)	TO220	N	35	13.0	20	0.070	0.060	970	22.0
ZXM64N035G (1)	SOT223	N	35	6.7	3.9	0.062	0.060	970	22.0
ZXMN4A06G	SOT223	N	40	6.7	3.9	0.075	0.050	-	-
BSS138	SOT23	N	50	0.2	0.36	3.5 @ 5V	-	35	-

P-Channel

Part Number	Package	Polarity	BV _{DSS} V	I _D A	P _D W	R _{DS(on)} Max @		C _{iss} (typ) @ V _{DS} = -15V pF	Q _g (typ) @ V _{GS} = -10V nC
						V _{GS} = -4.5V Ω	V _{GS} = -10V Ω		
ZXMP4435N8 (2)	SO8	P	-30	-8.6	2.5	0.035	0.02	2490	65.0
ZXM66P03N8 (1)	SO8	P	-30	-7.9	2.5	0.035	0.025	2000	62.5
ZXMP3A16N8 (2)	SO8	P	-30	-5.8	2.5	0.066	0.044	1050	27.0
ZXMP3A16DN8 (2)	SO8	2 x P	-30	-5.3	2.1	0.066	0.044	1050	27.0
ZXMD65P03N8 (1)	SO8	2 x P	-30	-4.8	2.0	0.080	0.055	950	25.7
ZXMP3A17DN8 (2)	SO8	2 x P	-30	-4.1	2.1	0.106	0.072	690	18.0
ZXM64P03X	MSOP8	P	-30	-3.8	1.8	0.100	0.075	875	37.0
ZXMP3A17E6 (2)	SOT23-6	P	-30	-3.7	1.7	0.106	0.072	690	18.0
ZXM62P03E6	SOT23-6	P	-30	-2.6	1.7	0.230	0.150	350	8.0
ZXMD63P03X	MSOP8	2 x P	-30	-2.0	1.25	0.270	0.185	280	5.4
ZXMP3A13F (2)	SOT23	P	-30	-1.5	0.80	0.322	0.205	200	5.2
ZXM61P03F	SOT23	P	-30	-1.1	0.80	0.550	0.350	145	3.7
ZXM64P035L3 (1)	TO220	P	-35	-12.0	20	0.105	0.075	875	37.0
ZXM64P035G (1)	SOT223	P	-35	-5.3	3.9	0.105	0.075	875	37.0
ZXMP4A16G	SOT223	P	-40	-5.5	3.9	0.120	0.70	-	-
BS250P	E-Line	P	-45	-0.23	0.7	-	14	60	1.6
BS250F	SOT23	P	-45	-0.09	0.33	-	14	30	0.75
ZVP4105A	E-Line	P	-50	-0.18	0.625	10 @ 5V	-	-	-
BSS84	SOT23	P	-50	-0.13	0.36	10 @ 5V	-	-	-

N & P-Channel Combinations

Part Number	Package	Polarity	BV _{DSS} V	I _D A	P _D W	R _{DS(on)} Max @		C _{iss} (typ) @ V _{DS} = 15V pF	Q _g (typ) @ V _{GS} = 10V nC
						V _{GS} = 4.5V Ω	V _{GS} = 10V Ω		
ZXMC3A16DN8 (2)	SO8	N + P	30	5.9	2.1	0.050	0.035	750	17.5
			-30	-5.3	2.1	0.066	0.044	1050	27
ZXMD63C03X	MSOP8	N + P	30	2.3	1.25	0.2	0.135	300	6.1
			-30	-2.0	1.25	0.27	0.185	280	5.4

Notes: (1) - Provisional data (2) - Advanced information (samples Q202)