

20 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
- Battery pack switches
- Motor drive
- Disconnect switches

N-Channel

Part Number	Package	Polarity	BV _{DSS}	I _D	P _D	R _{DS(on)} Max @		C _{iss} (typ) @ V _{DS} = 10V pF	Q _g (typ) @ V _{GS} = 4.5V nC
						V _{GS} = 2.5V Ω	V _{GS} = 4.5V Ω		
			V	A	W				
ZXMN2A02X8 (1)	MSOP8	N	20	7.6	1.8	0.040	0.020	2050	18.6
ZXMN2A04DN8 (2)	SO8	2 x N	20	6.8	2.1	0.040	0.025	2300	24.0
ZXM64N02X	MSOP8	N	20	5.4	1.8	0.050 @ 2.7V	0.040	1100	12.5
ZXMN2A03E6 (1)	SOT23-6	N	20	4.5	1.7	0.100	0.055	823	8.6
ZXM62N02E6	SOT23-6	N	20	3.2	1.7	0.125 @ 2.7V	0.100	480	5.0
ZXMN2A01E6 (1)	SOT23-6	N	20	3.0	1.7	0.300	0.120	299	3.1
ZXMD63N02X	MSOP8	2 x N	20	2.4	1.25	0.150 @ 2.7V	0.130	360	4.8
ZXMN2A01F (1)	SOT23	N	20	2.0	0.8	0.300	0.120	310	3.1
ZXM61N02F	SOT23	N	20	1.7	0.8	0.240 @ 2.7V	0.180	170	2.6

P-Channel

Part Number	Package	Polarity	BV _{DSS}	I _D	P _D	R _{DS(on)} Max @		C _{iss} (typ) @ V _{DS} = -10V pF	Q _g (typ) @ V _{GS} = -4.5V nC
						V _{GS} = -2.5V Ω	V _{GS} = -4.5V Ω		
			V	A	W				
ZXM66P02N8 (1)	SO8	P	-20	-8.0	2.5	0.045	0.025	2100	43.3
ZXMD65P02N8 (1)	SO8	2 x P	-20	-5.1	2.0	0.080	0.050	970	20
ZXM64P02X	MSOP8	P	-20	-3.6	1.8	0.130 @ 2.7	0.090	950	5
ZXM62P02E6	SOT23-6	P	-20	-2.3	1.7	0.375 @ 2.7	0.200	340	4.6
ZXMD63P02X	MSOP8	2 x P	-20	-1.7	1.25	0.400 @ 2.7	0.270	300	4.1
ZXM61P02F	SOT23	P	-20	-0.9	0.8	0.900 @ 2.7	0.600	180	2.7

N & P-Channel Combinations

Part Number	Package	Polarity	BV _{DSS}	I _D	P _D	R _{DS(on)} Max @		C _{iss} (typ) @ V _{DS} = 10V pF	Q _g (typ) @ V _{GS} = 4.5V nC
						V _{GS} = 2.7V Ω	V _{GS} = 4.5V Ω		
			V	A	W				
ZXMD63C02X	MSOP8	N + P	20	2.4	1.25	0.15	0.13	360	4.8
			-20	-1.7	1.25	0.40	0.27	390	4.1

Notes: (1) - Provisional data

(2) - Advanced information (samples Q202)