

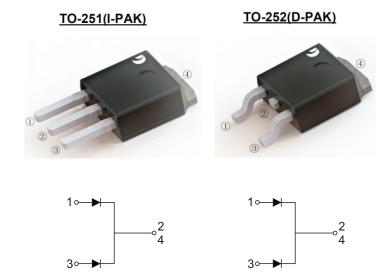
山东晶导微电子股份有限公司 Jingdao Microelectronics co.LTD MBR1040xT THRU MBR10200xT

SCHOTTKY BARRIER RECTIFIERS

Reverse Voltage - 40 to 200 V Forward Current - 10 A

FEATURES

- High current capability
- Low forward voltage drop
- · Low power loss, high efficiency
- High surge capability
- · High temperature soldering guaranteed
- Mounting position: any



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS Ratings at 25°C ambient temperature unless otherwise specified

QUADA OTERIOTIO	TO-251	MBR1040VT	MBR1045VT	MBR1060VT	MBR10100VT	MBR10150VT	MBR10200VT	11=24=	
CHARACTERISTICS	TO-252	MBR1040DT	MBR1045DT	MBR1060DT	MBR10100DT	MBR10150DT	MBR10200DT	Units	
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	40	45	60	100	150	200	V	
Maximum RMS voltage	V _{RMS}	28	31.5	42	70	105	140	V	
Maximum DC Blocking Voltage	V _{DC}	40	45	60	100	150	200	V	
Maximum Average Forward Rectified Current	I _{F(AV)}			1	0			Α	
Peak Forward Surge Current,8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM} 100								
Max Instantaneous Forward Voltage at 5 A DC per leg	V _F	0.	70	0.75	0.85 0.90		0.92	V	
Maximum DC Reverse Current T _a = 25°C at Rated DC Reverse Voltage T _a =125°C	I _R	I _R 0.1 0.05 20							
Typical Junction Capacitance (1)	C _j	600 400						pF	
Typical Thermal Resistance (2)	$R_{\theta JA}$	R _{0JA} 45							
Operating Junction Temperature Range	Tj	-55 ~ +150 -55 ~ +175							
Storage Temperature Range	T_{stg}	-55 ~ +150 -55 ~ +175							

^(1) Measured at 1 MHz and applied reverse voltage of 4 V D.C

⁽²⁾ P.C.B. mounted with 10cmX10cmX1mm copper pad areas.

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Fig.1 TYPICAL FORWARD CURRENT DERATING CURVE

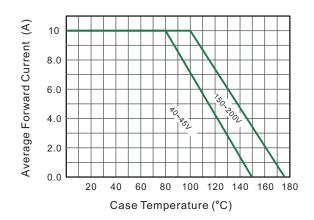


Fig.2 Typical Reverse Characteristics

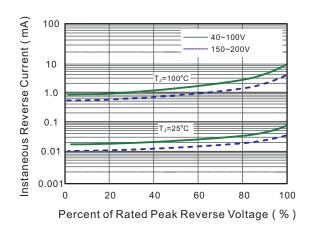


Fig.3 Typical Forward Characteristic

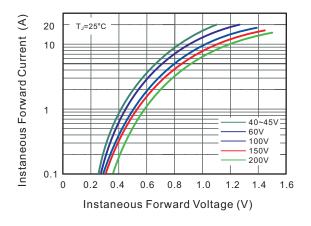


Fig.4 Typical Junction Capacitance

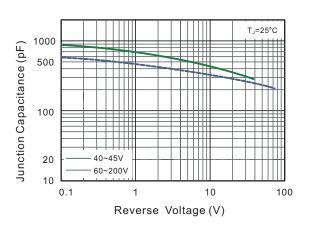


Fig.5 Maximum Non-Repetitive Peak Forward Surage Current

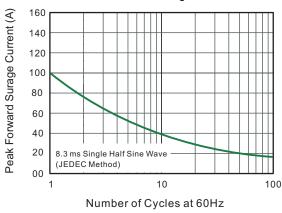
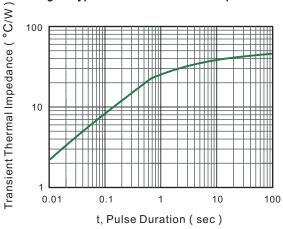
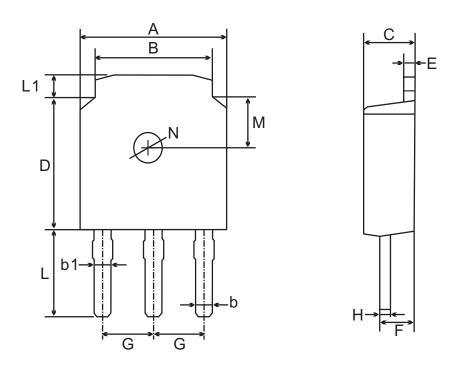


Fig.6- Typical Transient Thermal Impedance



TO-251(D-PAK) Package Outline Dimensions



TO-251(I-PAK) mechanical data

UN	NIT.	Α	В	b	b1	С	D	E	F	G	Н	L	L1	М	N	
mm	max	6.7	5.5	0.8	0.9	2.5	6.3	0.6	1.8	2.29	0.55	4.3	1.2	1.8	1.3 TYPICAL	
mm	min	6.3	5.1	0.3	0.76	2.1	5.9	0.4	1.3	TYPICAL	0.45	3.9	0.8	TYPICAL		
mil	max	264	217	31	35	98	248	24	71	90	22	169	47	71	51	
mil	min	248	201	12	30	83	232	16	51	TYPICAL	18	154	31	TYPICAL	TYPICAL	

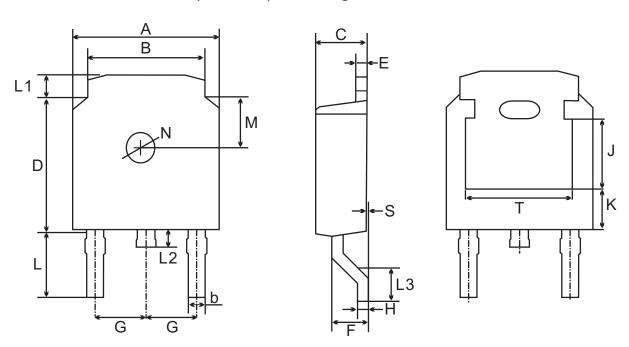
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TO-252(D-PAK) Package Outline Dimensions



TO-252(D-PAK) mechanical data

UN	VIT.	Α	В	b	С	D	Е	F	G	Н	L	L1	L2	L3	S	М	N	J	K	Т
	max	6.7	5.5	0.8	2.5	6.3	0.6	1.8	2.29	0.55	3.1	1.2	1.0	1.75	0.1	1.8 TYPICAL		3.16 ref.	1.80	4.83
mm	min	6.3	5.1	0.3	2.1	5.9	0.4	1.3	TYPICAL	0.45	2.7	0.8	0.6	1.40	0.0				ref.	ref.
	max	264	217	31	98	248	24	71	90	22	122	47	39	69	4	71	51	124	71	190
mil -	min	248	201	12	83	232	16	51	TYPICAL	18	106	31	24	55	0	TYPICAL	TYPICAL	ref.	ref.	ref.

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