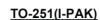
SCHOTTKY BARRIER RECTIFIERS

Reverse Voltage - 40 to 200 V

Forward Current - 10 A

FEATURES

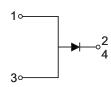
- High current capability
- Low forward voltage drop
- Low power loss, high efficiency
- High surge capability
- High temperature soldering guaranteed
- Mounting position: any

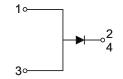












MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

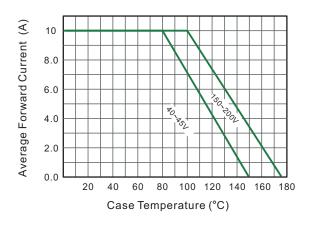
Ratings at 25 $^\circ\!C$ ambient temperature unless otherwise specified

CHARACTERISTICS	TO-251	MBR1040VS	MBR1045VS	MBR1060VS	MBR10100VS	MBR10150VS	MBR10200VS	Units		
	TO-252	MBR1040DS	MBR1045DS	MBR1060DS	MBR10100DS	MBR10150DS	MBR10200DS	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			А		
Peak Forward Surge Current,8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	_{FSM} 150								
Max Instantaneous Forward Voltage at 10 A	V _F	0.	65	0.70	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	0.1 0.05 20 20						mA		
Typical Junction Capacitance (1)	Cj	600 400								
Typical Thermal Resistance ⁽²⁾	$R_{ extsf{ heta}JA}$	R _{0JA} 35								
Operating Junction Temperature Range	Tj	-55 ~ +150 -55 ~ +175								
Storage Temperature Range	T _{stg} -55~+150 -55~+175							°C		

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

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

Fig.1 TYPICAL FORWARD CURRENT DERATING CURVE



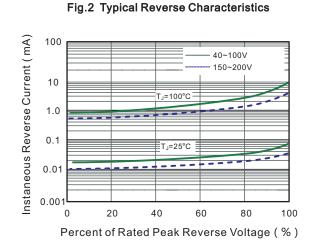


Fig.3 Typical Forward Characteristic

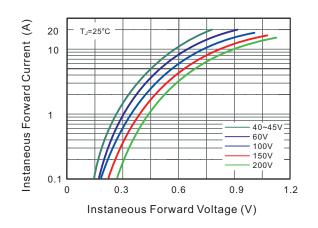
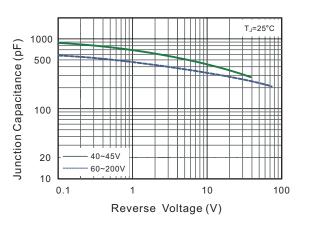
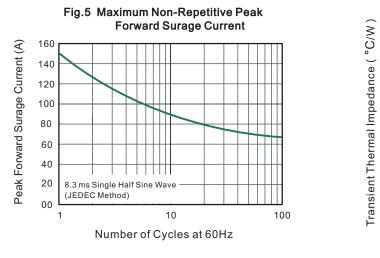
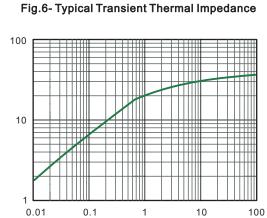


Fig.4 Typical Junction Capacitance

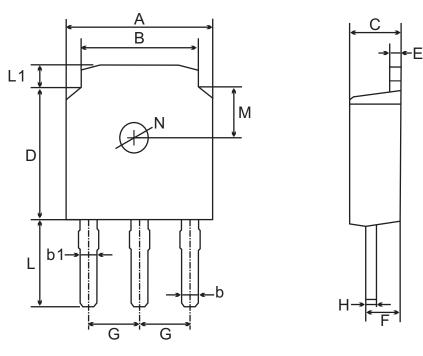






t, Pulse Duration (sec)

TO-251(D-PAK) Package Outline Dimensions



TO-251(I-PAK) mechanical data

1U	ΠI	А	В	b	b1	С	D	Е	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

U	TIV	Α	В	b	С	D	Е	F	G	Н	L	L1	L2	L3	S	М	N	J	К	Т
mm	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 ref.	4.83 ref.
	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					
mil	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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