

Voltage Range - 40 to 200 V Forward Current - 5 Ampere

SCHOTTKY BARRIER RECTIFIERS

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.

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GIVADA GEFEDIGENG	TO-251	TO-251 MBR540VS		MBR560VS	MBR5100VS	MBR5150VS	MBR5200VS	UNIT			
CHARACTERISTICS	TO-252	MBR540DS	MBR545DS	MBR560DS	MBR5100DS	MBR5150DS	MBR5200DS	CIVII			
Maximum Recurrent Peak Reverse Voltage	VRRM	40	45	60	100	150	200	V			
Maximum RMS Voltage	VRMS	28	31.5	42	70	105	140	V			
Maximum DC Blocking Voltage	VDC	40	45	60	100	150	200	V			
Maximum Average Forward Rectified Current	I(AV)	5.0									
Peak Forward Surage Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	IFSM		90								
Maximum Forward Voltage at 5.0A DC	VF	0.	.60	0.70	0.85	0.90	0.92	V			
Maximum DC Reverse Current TJ=25°C at Rated DC b locking Voltage TJ=125°C	Ir		0.1 20		mA						
Typical Junction Capacitance Per Element (Note1)	CJ	6	00		pF						
Typical Thermal Resistance (Note2)	$R_{\theta JA}$		35								
Operating Temperature Range	TJ		-55 to +150								
Storage Temperature Range	Tstg	-55 to +150									

NOTES: 1.Measured at 1.0MHz and applied reverse voltage of 4.0V DC. $\,$

2. Mounted on $10 \text{cm} \times 10 \text{cm} \times 1 \text{mm}$ copper pad area



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RATINGS AND CHARACTERISTIC CURVES MBR540 - MBR5200

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

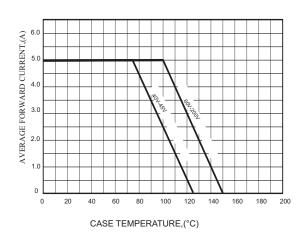


FIG.2-TYPICAL FORWARD

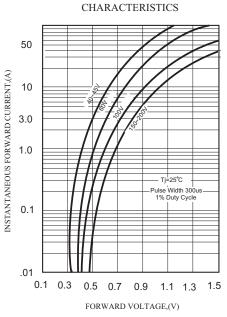


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

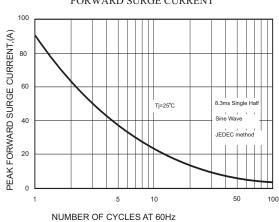
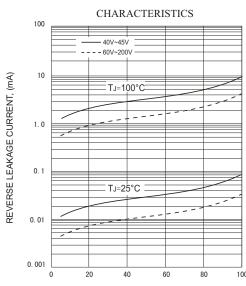


FIG.4 - TYPICAL REVERSE

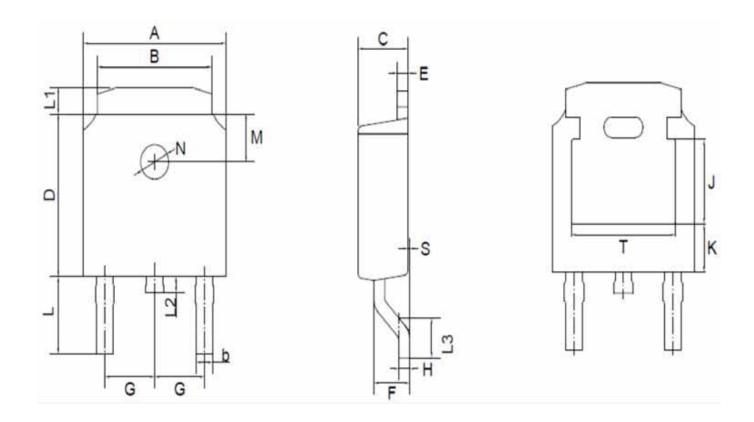


PERCENT OF RATED PEAK REVERSE VOLTAGE,(%)

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TO-252(D-PAK) Package Outline Dimensions



TO-252(D-PAK) mechanical data

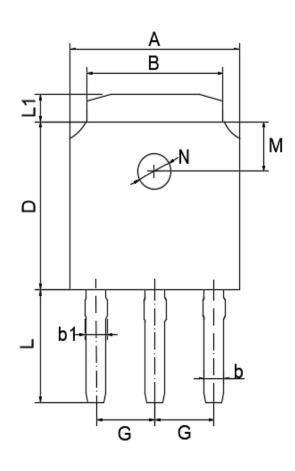
UN	IIT	Α	В	b	С	D	Е	F	G	Н	L	L1	L2	L3	S	M	N	J	K	Т
	max	6.7	5.5	0.8	2.5	6.3	0.6	1.8	2.29	0.55	3.1	1.2	1.0	1.75	0.1	1.8 TYPICAL	1.3 TYPICAL	3.16 ref.	1.80 ref.	4.83 ref.
mm	min	6.3	5.1	0.3	2.1	5.9	0.4	1.3	TYPICAL	0.45	2.7	8.0	0.6	1.40	0.0					
	max	264	217	31	98	248	24	71	90	22	122	47	39	69	4	71	51	124	71	190
mil	min	248	201	12	83	232	16	51	TYPICAL	18	106	31	24	55	0	TYPICAL	TYPICAL	ref.	ref.	ref.

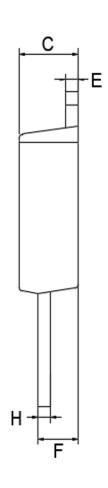


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TO-251(I-PAK) Package Outline Dimensions





TO-251(I-PAK) mechanical data

UN	П	Α	В	b	b1	С	D	Е	F	G	Н	L	L1	М	N
, man	max	6.70	5.50	0.80	0.90	2.50	6.30	0.60	1.80	2.29	0.55	4.30	1.20	1.8	1.3
mm	min	6.30	5.10	0.30	0.76	2.10	5.90	0.40	1.30	TYPICAL	0.45	3.90	0.80	TYPICAL	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

Disclaimer

All product, product specifications and data are subject to change without notice to improve reliability, function or design or otherwise