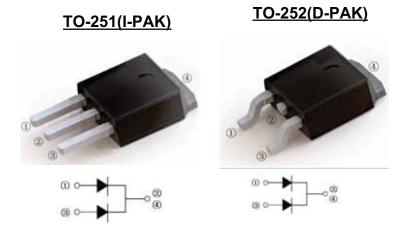


SCHOTTKY BARRIER RECTIFIERS

FEATURES

- High Performance and Reliability best suited for Automotive application
- 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.

	T	1	1	1		T .					
CHARACTERICATION	TO-251	MBR1040VT MBR1045VT		MBR1060VT	MBR10100VT	MBR10150VT	MBR10200VT	UNIT			
CHARACTERISTICS	TO-252	MBR1040DT	MBR1045DT	MBR1060DT	MBR10100DT	MBR10150DT	MBR10200DT	21411			
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)		10.0								
Peak Forward Surage Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	Ifsm		100								
Maximum Forward Voltage at 5.0A DC per leg	VF	0.	.60	0.70	0.85	0.90	0.92	V			
	lr		0.1 20		mA						
Typical Junction Capacitance Per Element (Note1)	Сл	6	00		pF						
Typical Thermal Resistance (Note2)	$R_{\theta JA}$		45								
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.

 $2.Mounted \ on \ 10cm \ x \ 10cm \ x \ 1mm \ copper \ pad \ area$



SCHOTTKY BARRIER RECTIFIERS

RATINGS AND CHARACTERISTIC CURVES MBR1040xT - MBR10200xT

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

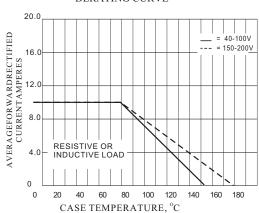


FIG.2-TYPICAL FORWARD

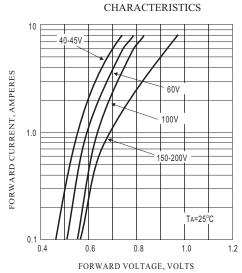


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

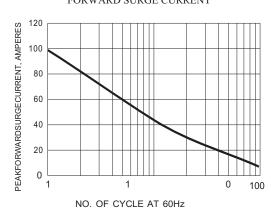
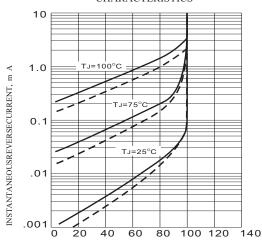


FIG.4 - TYPICAL REVERSE

CHARACTERISTICS

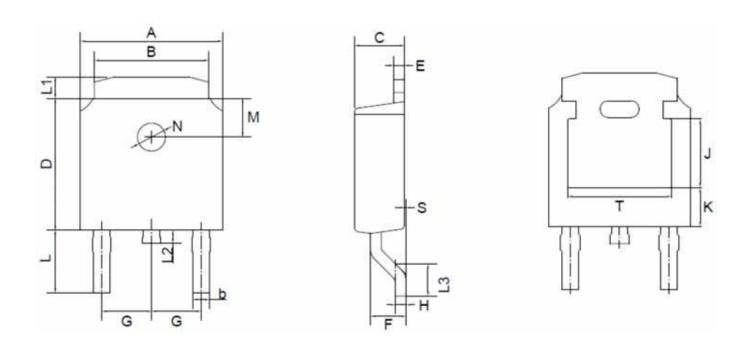


PERCENT OF INSTANTANEOUS REVERSE VOLTAGE,(%)



SCHOTTKY BARRIER RECTIFIERS

TO-252(D-PAK) Package Outline Dimensions



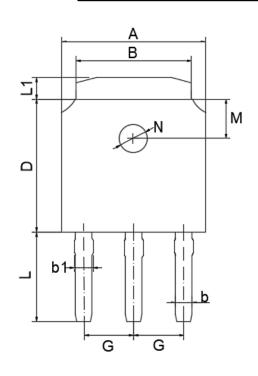
TO-252(D-PAK) mechanical data

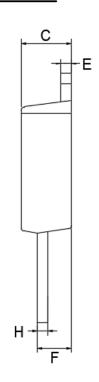
UN	IT	Α	В	b	С	D	Е	F	G	н	L	L1	L2	L3	S	М	N	J	K	Т
mm	max	6.7	5.5	0.8	2.5	6.3	0.6	1.8	2.29	0.55	3.1	1.2	1.0	1.75	0.1	1.8 TYPICAL TY	1.3	3.16 ref.	1.80 ref.	4.83 ref.
mm	min	6.3	5.1	0.3	2.1	5.9	0.4	1.3	TYPICAL	0.45	2.7	8.0	0.6	1.40	0.0		TYPICAL			
mil	max	264	217	31	98	248	24	71	90	22	122	47	39	69	4	71	51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



SCHOTTKY BARRIER RECTIFIERS

TO-251(I-PAK) Package Outline Dimensions





TO-251(I-PAK) mechanical data

UN	IT	Α	В	b	b1	С	D	Е	F	G	Н	L	L1	М	N
mm	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