

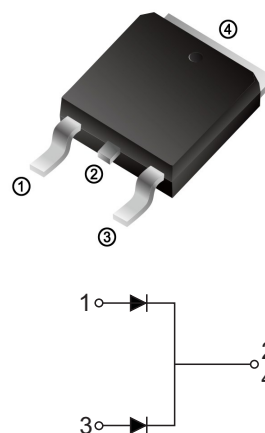


MBR3060DT THRU MBR30200DT **Surface Mount Schottky Rectifiers**

TO-252(D-PAK)

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.

CHARACTERISTICS	TO-252	MBR3060DT	MBR3080DT	MBR30100DT	MBR30150DT	MBR30200DT	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	60	80	100	150	200	V
Maximum RMS Voltage	VRMS	42	56	70	105	140	V
Maximum DC Blocking Voltage	VDC	60	80	100	150	200	V
Maximum Average Forward Rectified Current	I(AV)	30.0					A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	IFSM	150					A
Maximum Forward Voltage at 15.0A DC per leg	VF	0.75	0.85		0.90	0.92	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	IR	0.1 20					mA
Operating Temperature Range	TJ	-55 to +150					°C
Storage Temperature Range	TSTG	-55 to +150					°C

Characteristic Curves (T_A=25 °C unless otherwise noted)

MBR3060DT THRU MBR30200DT

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

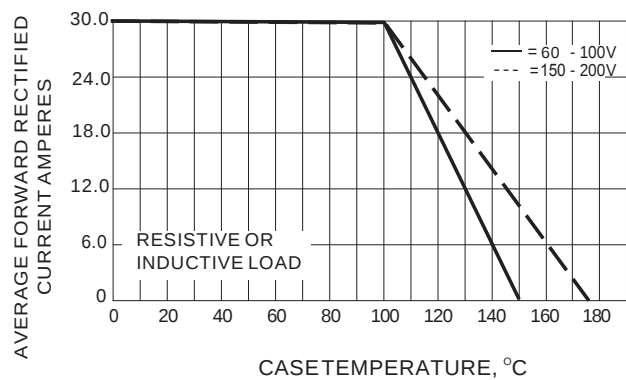


FIG.2-TYPICAL FORWARD CHARACTERISTICS

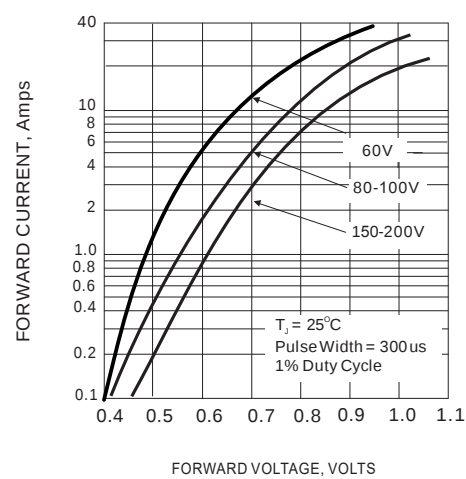


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

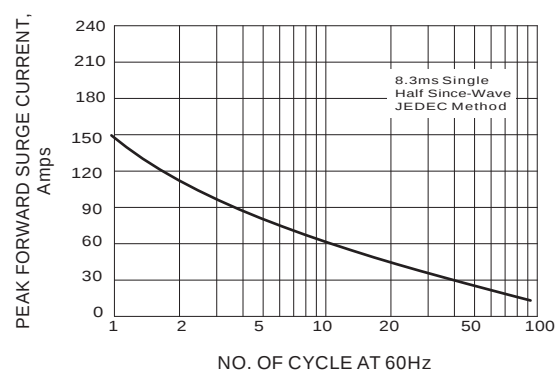
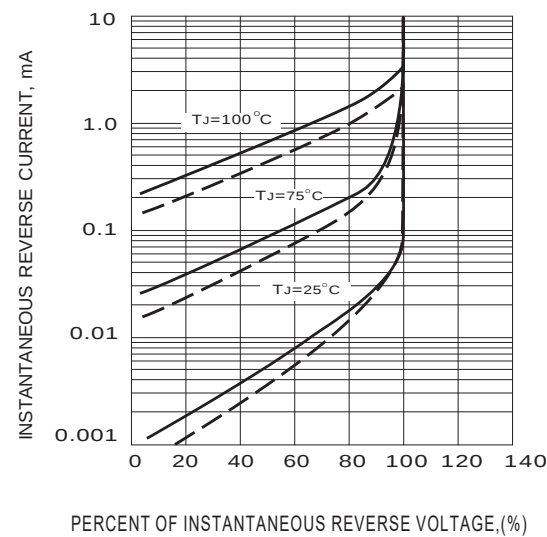
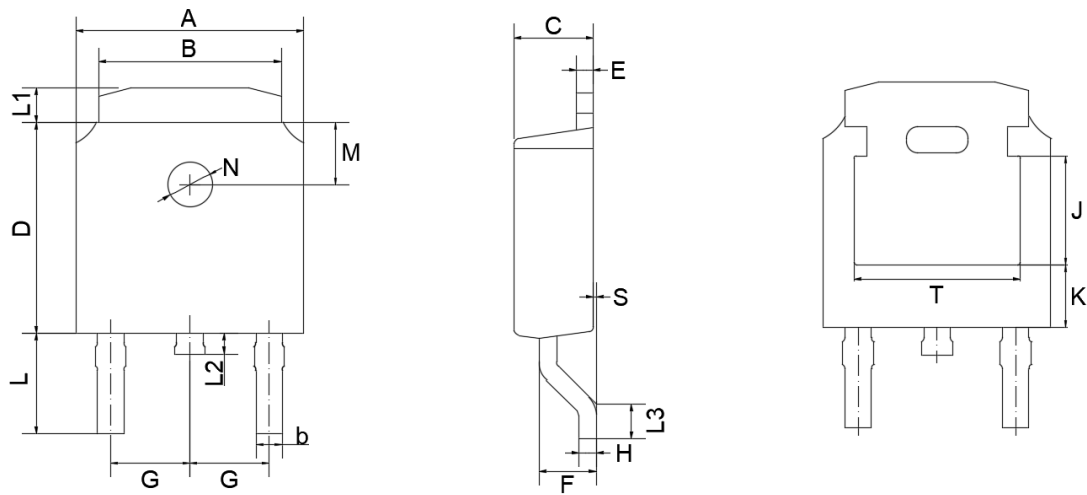


FIG.4 - TYPICAL REVERSE CHARACTERISTICS



TO-252(D-PAK) Package Outline Dimensions



TO-252(D-PAK) mechanical data

UNIT		A	B	b	C	D	E	F	G	H	L	L1	L2	L3	S	M	N	J	K	T
mm	max	6.7	5.5	0.86	2.5	6.3	0.6	1.8	2.29 TYPICAL	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.
	min	6.3	5.1	0.66	2.1	5.9	0.4	1.3		0.45	2.7	0.8	0.6	1.40	0.0					
mil	max	264	217	33	98	248	24	71	90 TYPICAL	22	122	47	39	69	4	71 TYPICAL	51 TYPICAL	124 ref.	71 ref.	190 ref.
	min	248	201	26	83	232	16	51		18	106	31	24	55	0					