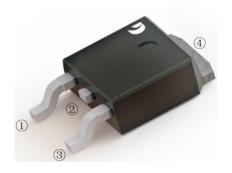
SCHOTTKY BARRIER RECTIFIERS

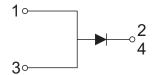
Reverse Voltage - 100 V Forward Current - 20 A

FEATURES

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

TO-252(D-PAK)



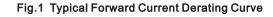


MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS Ratings at 25°C ambient temperature unless otherwise specified

CHARACTERISTICS	SYMBOL	MBR20100DY	Units				
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	100	V				
Maximum RMS voltage	V _{RMS}	70	V				
Maximum DC Blocking Voltage	V _{DC}	100					
Maximum Average Forward Rectified Current	I _{F(AV)}	20	Α				
Peak Forward Surge Current,8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	280	А				
Max Instantaneous Forward Voltage at 20 A	V _F	0.85	V				
Maximum DC Reverse Current $T_a = 25^{\circ}$ C at Rated DC Reverse Voltage $T_a = 100^{\circ}$ C	I _R	0.05 20	mA				
Typical Junction Capacitance (1)	C _j	550	pF				
Typical Thermal Resistance (2)	$R_{\theta JA}$	45	°C/W				
Operating Junction Temperature Range	Tj	-55 ~ +150	°C				
Storage Temperature Range	T _{stg}	-55 ~ +150	°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.



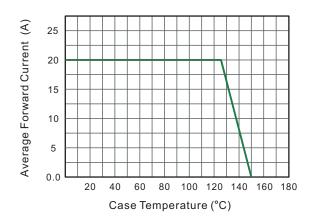


Fig.2 Typical Reverse Characteristics

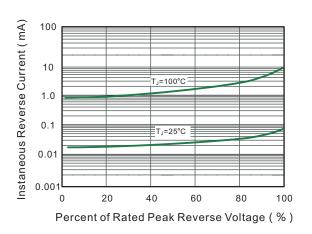


Fig.3 Typical Forward Characteristics

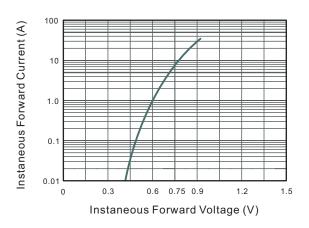


Fig.4 Typical Junction Capacitance

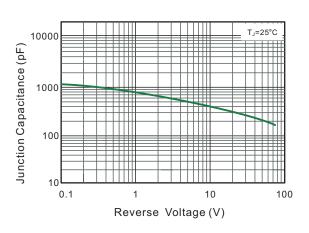


Fig.5 Maximum Non-Repetitive Peak Forward Surage Current

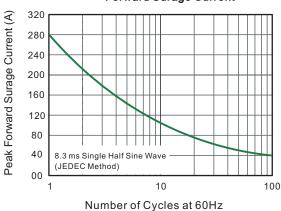
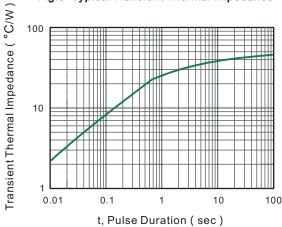
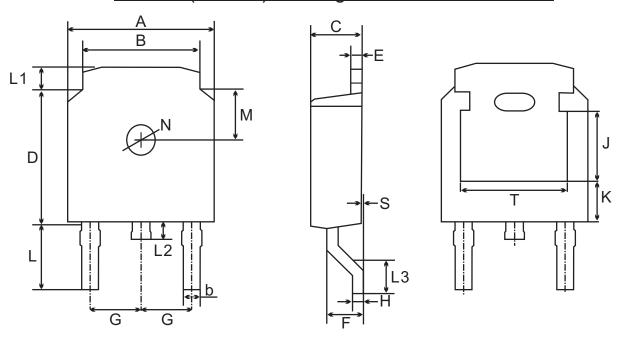


Fig.6- Typical Transient Thermal Impedance

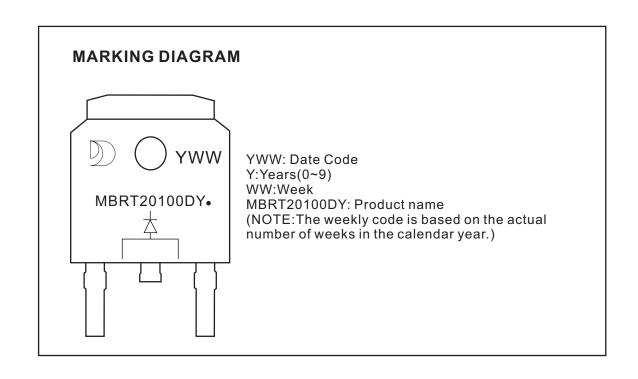


TO-252(D-PAK) Package Outline Dimensions



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
mm	max	6.7	5.5	8.0	2.5	6.3	0.6	1.8	2.29 TYPICAL	0.55	3.1	1.2	1.0	1.75	0.1	1.0			1.80 ref.	4.83 ref.
		6.3	5.1	0.3	2.1	5.9	0.4	1.3		0.45	2.7	0.8	0.6	1.40	0.0					
mil	max	264	217	31	98	248			90 TYPICAL		122	47	39	69	4	71 TYPICAL	51 TYPICAL	124		190 ref.
	min	248	201	12	83	232	16	51		18	106	31	24	55	0			ref.		



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