

MBR1040AW THRU MBR10200AW TO-251S

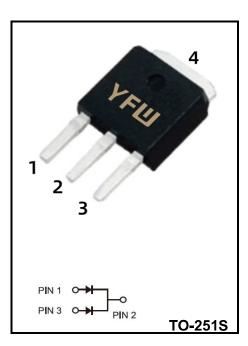
Schottky Barrier Rectifiers Reverse Voltage - 40 to 200 V Forward Current - 10A

FEATURES

High current capability
Low forward voltage drop
High surge capability
High temperature soldering guaranteed
Mounting position: any
MECHANICAL DATA
Lead free finish, RoHS compliant

Case Material: "Green" molding compound, UL

flammability classification 94V-0,"Halogen-free"



Maximum Ratings and Electrical Characteristics Ratings (Ta = 25°) ambient temperature unless otherwise specified.

Parameter	Symbol	MBR1040AW	MBR1045AW	MBR1060AW	MBR10100AW	MBR10150AW	MBR10200AW	Units
Maximum Repetitive Peak Reverse Voltage	Vrrm	40	45	60	100	150	200	v
Maximum RMS voltage	Vrms	28	32	42	70	105	140	v
Maximum DC Blocking Voltage	VDC	40	45	60	100	150	200	v
Maximum Average Forward Rectified Current	F(AV)	5 10					Α	
Peak Forward Surge Current, 8.3ms Single Half Sine- wave Superimposed On Rated Load (JEDEC method)	FSM	100					А	
Maximum Instantaneous Forward Voltage at 10 A	VF	0.70		0.75	0.85	0.90	0.92	v
Maximum Instantaneous Reverse Current Ta = 25°C at Rated DC Reverse Voltage Ta = 125°C	R	0.1 20				0.05 20		
Typical Junction Capacitance ⁽¹⁾	Cj	300			20	200		
Typical Thermal Resistance ⁽²⁾	Reja	35					°C/W	
Operating Junction Temperature Range	Tj	-55 ~ +150					+175	°C
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 10cm X 10cmX1mm copper pad areas.



Fig.1 Typical Forward Current Derating Curve

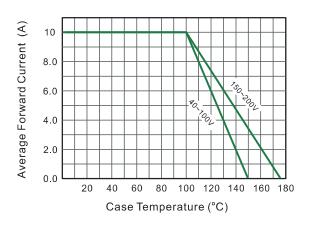


Fig.2 Typical Reverse Characteristics

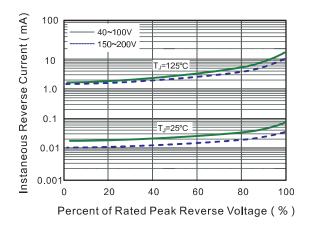


Fig.3 Typical Forward Characteristics

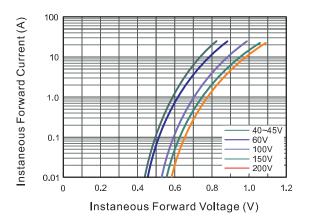
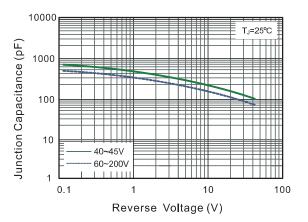
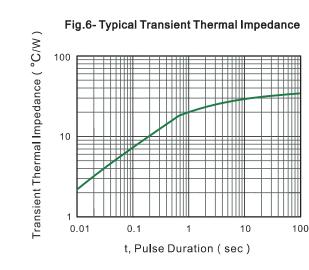


Fig.4 Typical Junction Capacitance





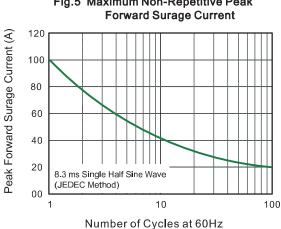
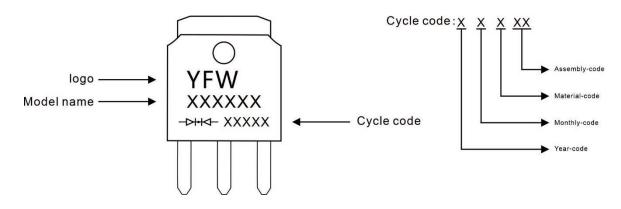


Fig.5 Maximum Non-Repetitive Peak



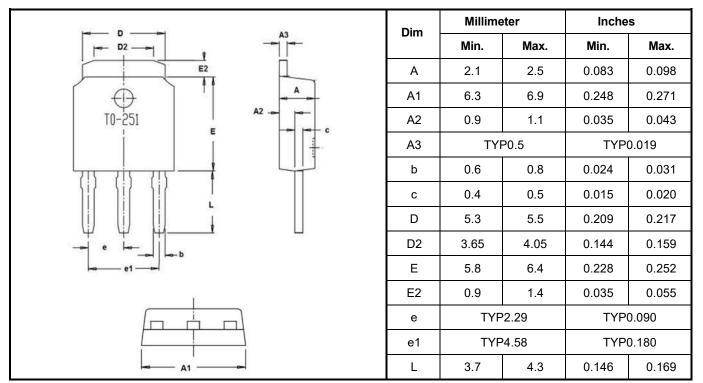
Marking Diagram



Ordering information

Model name	Package	Unit Weight	Base Quantity	Packing Quantity
MBRXXXXXAW	TO-251S	0.011oz(0.32g)	80pcs/tube	4000pcs/box 24000pcs/Carton

Package Dimensions TO-251S





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