



ULTRA LOW IR SCHOTTKY BARRIER RECTIFIERS

VOLTAGE 200~250 Volt CURRENT 1 Ampere

FEATURES

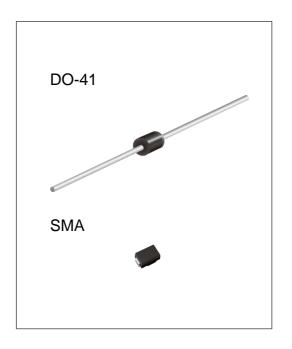
- Plastic package has Underwriters Laboratory Flammability Classification 94V-O.
- Flame Retardant Epoxy Molding Compound.

 Low power loss, high efficiency.
- High current capability
- High junction temperature capability
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free) (SMA)

MECHANICAL DATA

- Case: DO-41, SMA package
- Terminals: solder plated, solderable per MIL-STD-750, Method 2026
- DO-41 Weight: 0.012 ounces, 0.34 grams.
- SMA Weight: 0.002 ounces, 0.068 grams.

	200V	250V		
DO-41	MBR1H200	MBR1H250		
SMA	SX1H20	SX1H25		



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%

PARAMETER	SYMBOL	200V 250V		UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	200 250		V
Maximum RMS Voltage	V _{RMS}	140 175		V
Maximum DC Blocking Voltage	V _{DC}	200	250	V
Maximum Average Forward Current	I _{F(AV)}		А	
Peak Forward Surge Current: 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	3	А	
Maximum Forward Voltage at 1A	V _F	0	V	
Maximum DC Reverse Current $T_J=25$ °C at Rated DC Blocking Voltage $T_J=125$ °C	I _R	0.5 1		μA mA
Typical Thermal Resistance SMA(Notes DO-41(Notes		2	°C / W	
Operating Junction and Storage Temperature Range	T _J ,T _{STG}	-55 to	°C	

NOTES: 1. Mounted on a FR4 PCB, single-sided copper, with 100cm2 copper pad area

2. The testing condition of the thermal resistance (junction to lead) is based on 10 mm lead length between two 10cm x 10cm copper pad





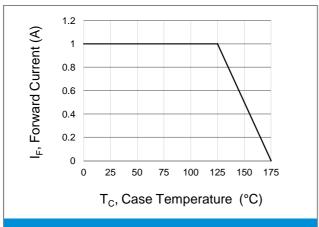


Fig.1 Forward Current Derating Curve

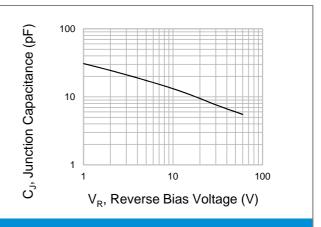


Fig.2 Typical Junction Capacitance

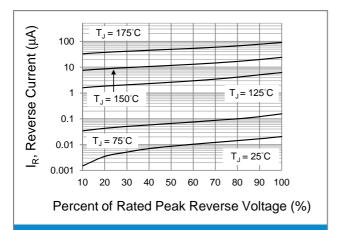


Fig.3 Typical Reverse Characteristics

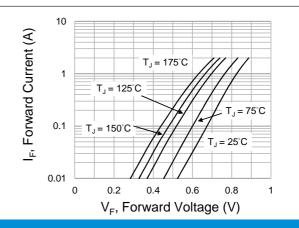
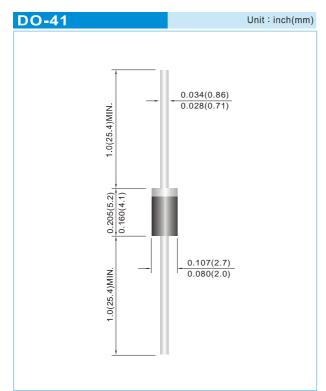
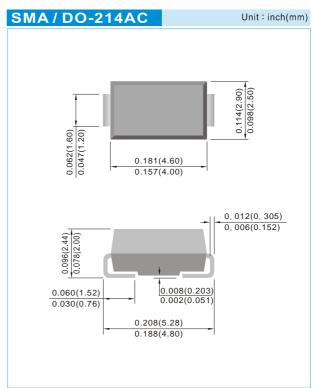


Fig.4 Typical Forward Characteristics













Part No_packing code_Version

MBR1H200_AY_00001

MBR1H200_AY_10001

MBR1H200_B0_00001

MBR1H200_B0_10001

MBR1H200_R2_00001

MBR1H200_R2_10001

SX1H20_R1_00001

SX1H20_R2_00001

For example:



Packing Code XX				Version Code XXXXX			
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code	
Tape and Ammunition Box (T/B)	Α	N/A	0	HF	0	serial number	
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number	
Bulk Packing (B/P)	В	13"	2				
Tube Packing (T/P)	Т	26mm	X				
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y				
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U				
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D				





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