



ULTRA LOW IR SCHOTTKY BARRIER RECTIFIERS

Voltage

150 V

Current

1 A

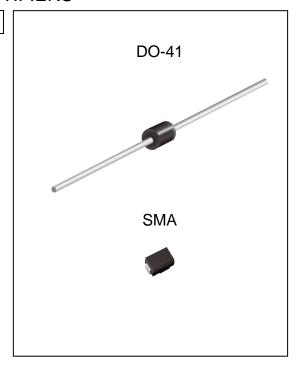
Features

- 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: SMA, DO-41 package
- Terminals: solder plated, solderable per MIL-STD-750,Method 2026
- SMA Weight: 0.0024 ounces, 0.068 grams.
- DO-41 Weight: 0.012 ounces, 0.336 grams.
- Marking: Part number

	150V		
SMA	SX1H15		
DO-41	MBR1H150		



Maximum Ratings And Electrical Characteristics (T_A=25°C unless otherwise noted)

PARAMET	SYMBOL	150V	UNIT		
Maximum repetitive peak reverse voltage		Vrrm	150	V	
Maximum rms voltage		VRMS	105	V	
Maximum dc blocking voltage	VR	150	V		
Maximum average forward rectified current		I F(AV)	1	Α	
Peak forward surge current: 8.3ms single half sine- wave superimposed on rated load		IFSM	30	А	
Maximum forward voltage at 1A		VF	0.85	V	
Maximum dc reverse current	T _J =25°C		0.5	μА	
at rated dc blocking voltage	T _J =125°C	l _R	1	mA	
Typical thermal resistance	SMA(Note 1) DO-41(Note 2)	Røjl	35 47	°C/W	
Operating junction temperature range		TJ	-55 to +175	°C	
Storage temperature range		Tstg	-55 to +175	°C	

Note: 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 FR4 PCB single-sided copper pad





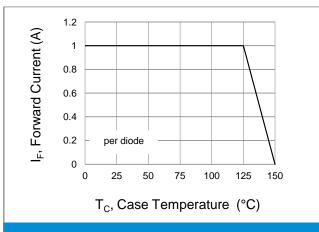


Fig.1 Forward Current Derating Curve

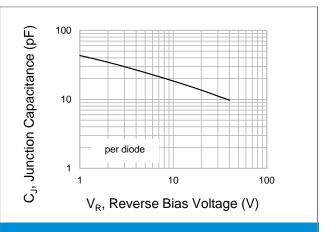


Fig.2 Typical Junction Capacitance

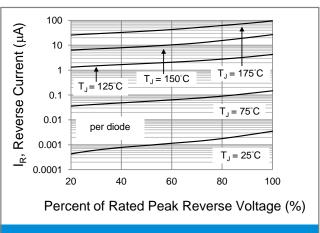


Fig.3 Typical Reverse Characteristics

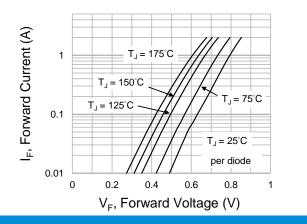


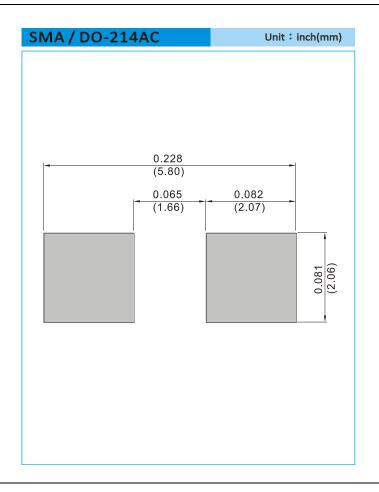
Fig.4 Typical Forward Characteristics

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MOUNTING PAD LAYOUT



ORDER INFORMATION

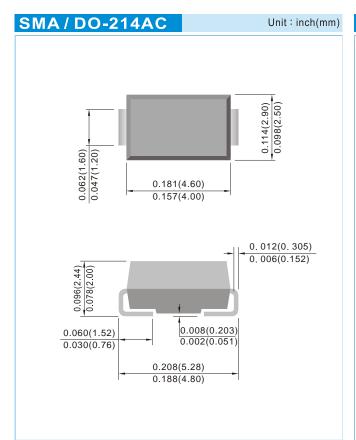
• Packing information

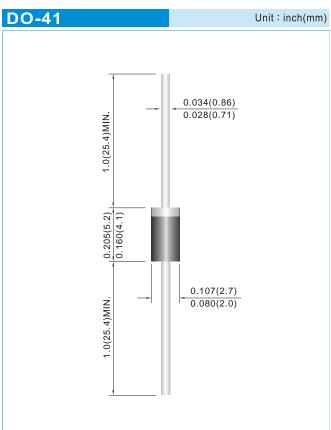
T/R - 7.5K per 13" plastic Reel

T/R - 1.8K per 7" plastic Reel













Part No_packing code_Version

SX1H15_R1_00001

SX1H15_R2_00001

MBR1H150_AY_00001

MBR1H150_AY_10001

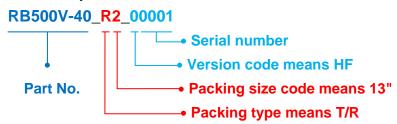
MBR1H150_B0_00001

MBR1H150_B0_10001

MBR1H150_R2_00001

MBR1H150_R2_10001

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)	A	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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