



SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

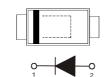
VOLTAGE 40-200Volt CURRENT 1 Ampere SOD-1

FEATURES

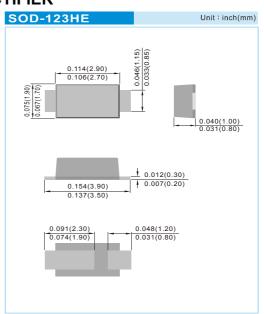
- · Fast switching speed
- · Surface mount package ideally suited for automatic insertion
- · Electrical identical standard JEDEC.
- · High conductor
- · Lead free in compliance with EU RoHS 2.0
- · Green molding compound as per IEC 61249 standard

MECHANICAL DATA

- · Case: SOD-123HE, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Apporx. Weight: 0.0006 ounces, 0.0184 grams
- · Polarity: Color band denotes cathode end



Cathode



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (Ta=25°C unless otherwise noted)

PARAMETER	SYMBOL	SS1040HE	SS1060HE	SS10100HE	SS10150HE	SS10200HE	UNITS
Marking Code		EM	EN	EP	ERL	ES	
Maximum Recurrent Peak Reverse Voltage		40	60	100	150	200	V
Maximum RMS Voltage		28	42	70	105	140	V
Maximum DC Blocking Voltage		40	60	100	150	200	V
Maximum Average Forward Current	I _o	1					
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	30					
Maximum Forward Voltage at 1A	V _F	0.55	0.7	0.8	0.	V	
Maximum DC Reverse Current	I _R	30					μΑ
Typical Junction capacitance at VR=0V, f=1MHz	C	155	125	100	85		pF
Typical Thermal Resistance, Junction to Ambient (Note 2) Junction to Case (Note 1)	R _{eja} R _{ejc}	185 20					
Operating Junction Temperature and Storage Temperature Range	T _J ,T _{STG}	-55 to +150					

NOTES:

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





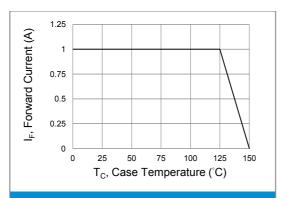


Fig.1 Forward Current Derating Curve

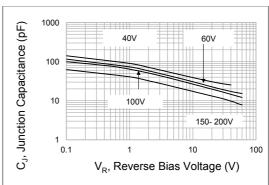


Fig.2 Typical Junction Capacitance

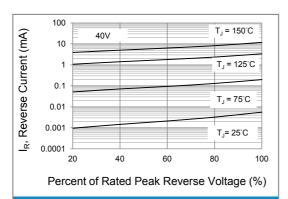


Fig.3 Typical Reverse Characteristics

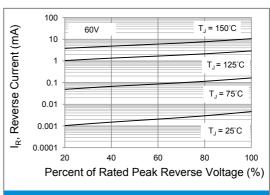


Fig.4 Typical Reverse Characteristics

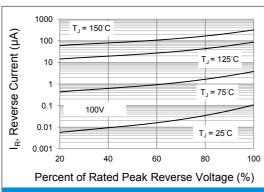


Fig.5 Typical Reverse Characteristics

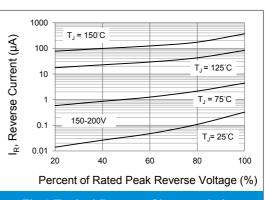


Fig.6 Typical Reverse Characteristics

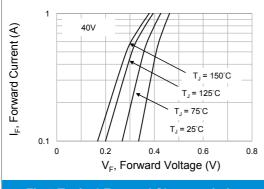


Fig.7 Typical Forward Characteristics

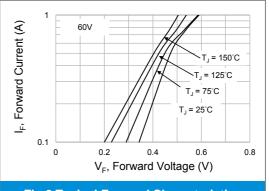


Fig.8 Typical Forward Characteristics





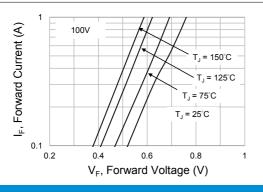


Fig.9 Typical Forward Characteristics

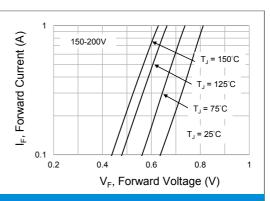


Fig.10 Typical Forward Characteristics

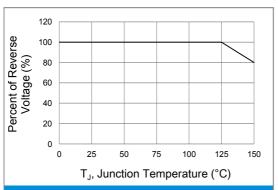
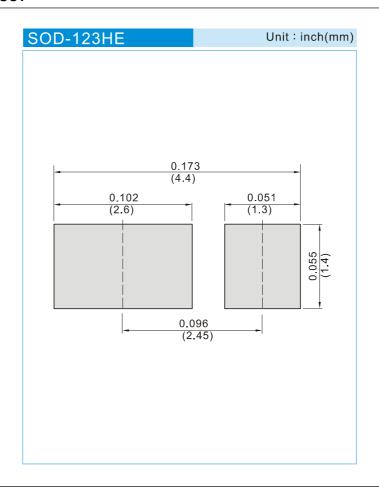


Fig.11 Operating Temperature Derating Curve





MOUNTING PAD LAYOUT



ORDER INFORMATION

· Packing information

T/R - 10K per 13" plastic Reel

T/R - 3K per 7" plastic Reel

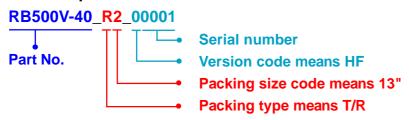




Part No_packing code_Version

SS1040HE_R1_00001 SS1040HE_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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