



SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

VOLTAGE 20~200 Volt

CURRENT

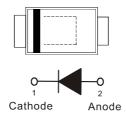
3 Ampere

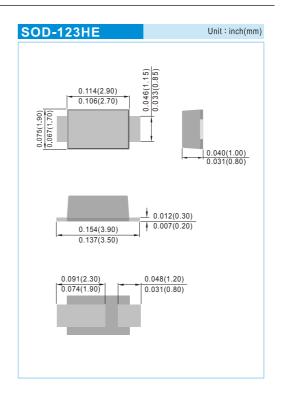
FEATURES

- Plastic package has Underwriters Laboratory
 Flammability Classification 94V-O
- For surface mounted applications in order to optimize board space
- · Low power loss, high efficiency
- · High surge capacity
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

MECHANICAL DATA

- Case: SOD-123HE molded plastic
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- · Polarity: Color band denotes cathode end
- · Approx weight: 0.0006 ounces, 0.0184 grams





MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Resistive or inductive load.

PARAMETER	SYMBOL	SS3020- HE	SS3030- HE	SS3040- HE	SS3060- HE	SS30100- HE	SS30150- HE	SS30200- HE	UNITS
Marking Code	-	EA	EB	EC	ED	EF	EH	EJ	-
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	20	30	40	60	100	150	200	V
Maximum RMS Voltage	V _{RMS}	14	21	28	42	70	105	140	V
Maximum DC Blocking Voltage	V _{DC}	20	30	40	60	100	150	200	V
Maximum Average Forward Current	I F(AV)	3						А	
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I FSM	80							А
Maximum Forward Voltage at 3A (Note 1)	V _F	0.52 0.65 0.8 0.			0.86	0.86	٧		
Maximum DC Reverse Current T _J =25°C	I _R	160 100 20 20 20			20	μА			
Typical Thermal Resistance (Note 2)	$R_{_{ heta JA}}$	20 105						°C / W	
Operating Junction Temperature Range	T	-55 to +125 -55 to +150						°C	
Storage Temperature Range	T _{STG}	-55 to +125 -55 to +150						°C	

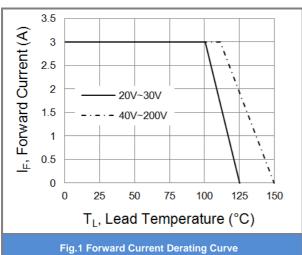
NOTES:

- 1. Pulse Test with PW =300µsec, 1% Duty Cycle.
- 2. Mounted on 50cm2 FR-4 PCB Board





TYPICAL CHARACTERISTIC CURVES



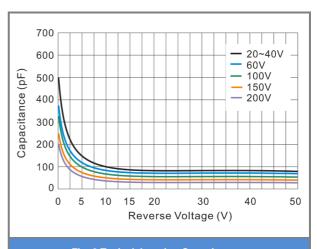


Fig. 2 Typical Junction Capacitance

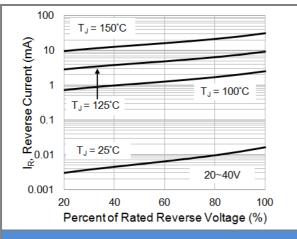


Fig.3 Typical Reverse Characteristics

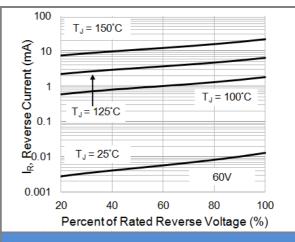
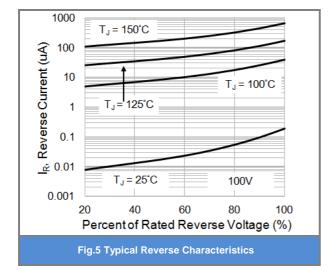
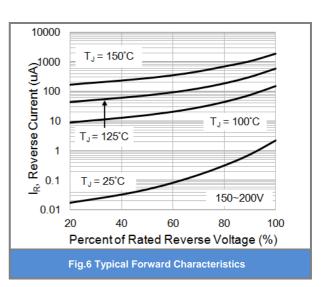


Fig.4 Typical Reverse Characteristics









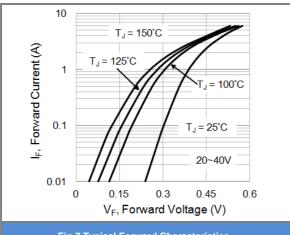
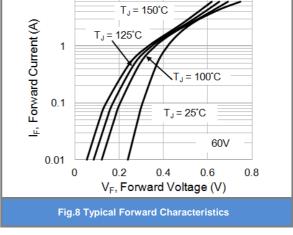


Fig.7 Typical Forward Characteristics



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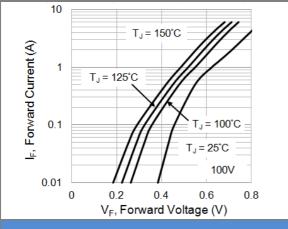


Fig.9 Typical Forward Characteristics

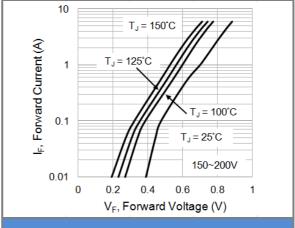


Fig.10 Typical Junction Capacitance

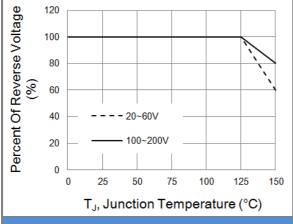


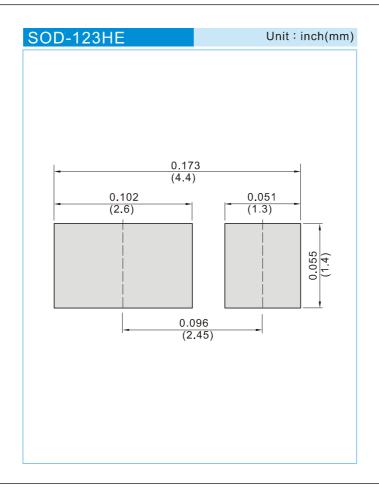
Fig.11 Operating Temperature Derating Curve

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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

SS3020HE_R1_00001 SS3020HE_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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