



SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

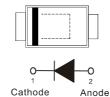
VOLTAGE 40 Volt CURRENT 2 Ampere

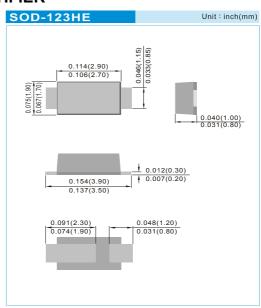
FEATURES

- · Fast switching speed
- · Surface mount package ideally suited for automatic insertion
- · Electrical identical standard JEDEC.
- · High conductor
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

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





ABSOLUTE MAXIMUM RATINGS (TA=25°C unless otherwise noted)

PARAMETER	SYMBOL	VALUE	UNITS
Reverse Voltage	V _R	40	V
Peak Reverse Voltage	V _{RRM}	40	V
Average Rectified Current at Temp=75°C	I _o	2	Α
Peak Forward Surge Current: 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	50	Α
Typical Thermal Resistance, Junction to Ambient (Note 1) Junction to Case (Note 1)	Rеја Rejc	225 20	°C/W
Operating Junction Temperature and Storage Temperature Range	T _J ,T _{STG}	-55 to +150	°C

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

PARAMETER	SYMBOL	Test Condition	MIN.	TYP.	MAX.	UNITS
Reverse Breakdown Voltage	V(BR)	In=1mA	40		-	V
Reverse Current	IR	V _R =40 V			100	μА
Forward Voltage	VF	IF=2A		0.5	0.55	V
Typical Junction Capacitance	Cı	V _R =0V, f=1MHz		300		pF

NOTES: 1.Mounted on 50cm2 FR-4 PCB board.





RATING AND CHARACTERISTIC CURVES

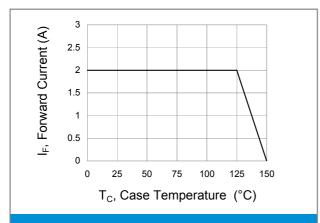


Fig.1 Forward Current Derating Curve

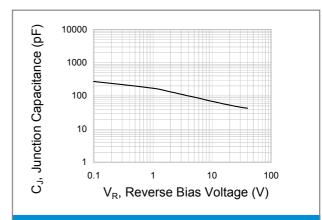


Fig.2 Typical Junction Capacitance

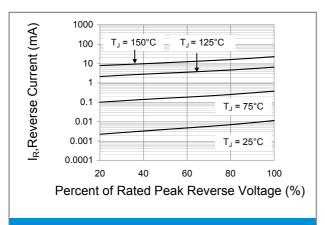


Fig.3 Typical Reverse Characteristics

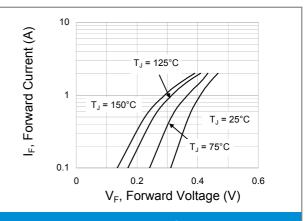


Fig.4 Typical Forward Characteristics

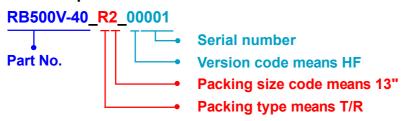




PART NO PACKING CODE VERSION

Part No Packing Code	Package Type	Packing Type	Marking	Version
SS2040HE_R1_00001	SOD-123HE	3K pcs / 7" reel	EY	Halogen free
SS2040HE_R2_00001	SOD-123HE	10K pcs / 13" reel	EY	Halogen free

For example:

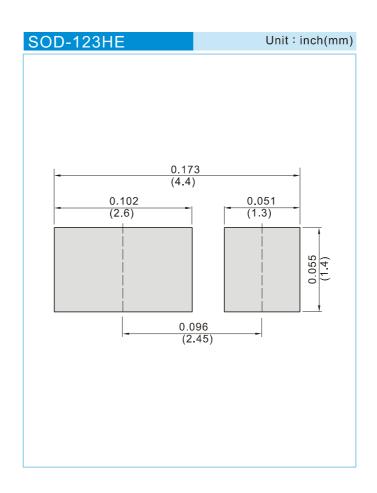


Packing Code XX			Version Code XXXXX			
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code
Tape and Ammunition Box (T/B)	Α	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	В	13"	2			
Tube Packing (T/P)	Т	26mm	X			
Tape and 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			





MOUNTING PAD LAYOUT







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