



SURFACE MOUNT RECTIFIER SOD-123HE Unit : inch(mm) VOLTAGE 400 Volt CURRENT 2 Ampere **FEATURES** 033/0 85 0.114(2.90) · For surface mounted applications in order to optimize board space .046(0.106(2.70) · Low profile package 0.075(1.90) · Ideal for automated placement · Glass Passivated Chip Junction · AEC-Q101 qualified 0.040(1.00) · Lead free in compliance with EU RoHS 2.0 • Green molding compound as per IEC 61249 standard **MECHANICAL DATA** 0.012(0.30) Case: SOD-123HE, Molded plastic over passivated junction 0.154(3.90) 0.137(3.50) • Terminals: Solder plated, solderable per MIL-STD-750, Method 2026 • Approx. Weight: 0.0006 ounces, 0.0184 grams 0.091(2.30) 0.048(1.20) • Standard Packaging : 8mm tape (EIA-481) 0.074(1.90) 0.031(0.80) · Polarity : Color band denotes cathode end

Anode

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Cathode

Ratings at 25°C ambient temperature unless otherwise specified.

PARAMETER	SYMBOL	VALUE	UNITS
Marking Code	-	4H	-
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	400	V
Maximum RMS Voltage	V _{rms}	280	V
Maximum DC Blocking Voltage	V _{DC}	400	V
Maximum Average Forward Currenth at T_L =100 °C	I _{F(AV)}	2.0	А
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	50	A
Maximum Forward Voltage at 2.0A	V _F	1.1	V
Maximum DC Reverse Current at Rated T_=25°C DC Blocking Voltage T_=125°C	I _R	1.0 50	μΑ
Typical Junction capacitance (Note 1)	C」	12	рF
Typical Thermal Resistance (Note 2)	$R_{_{ ext{ hetaJL}}}$	10	°C / W
Operating and Storage Temperature Range	T _J ,T _{STG}	-55 to +150	°C

NOTES :

1. Measured at 1 MHz and applied V_r = 4.0 volts.

2. 8.0 \mbox{mm}^2 (.013mm thick) land areas.

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RATING AND CHARACTERISTIC CURVES

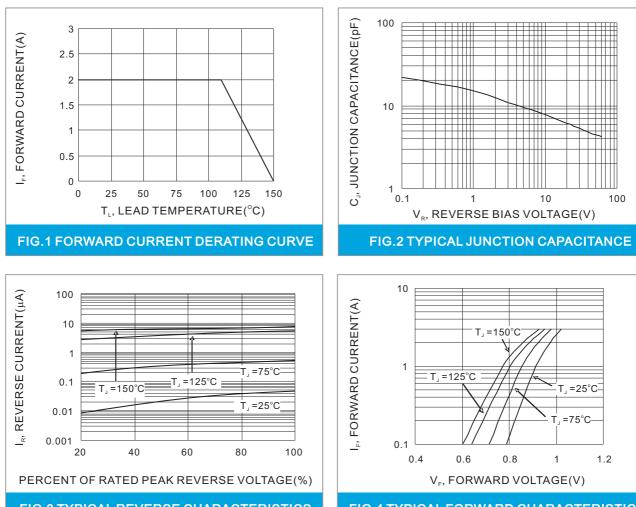


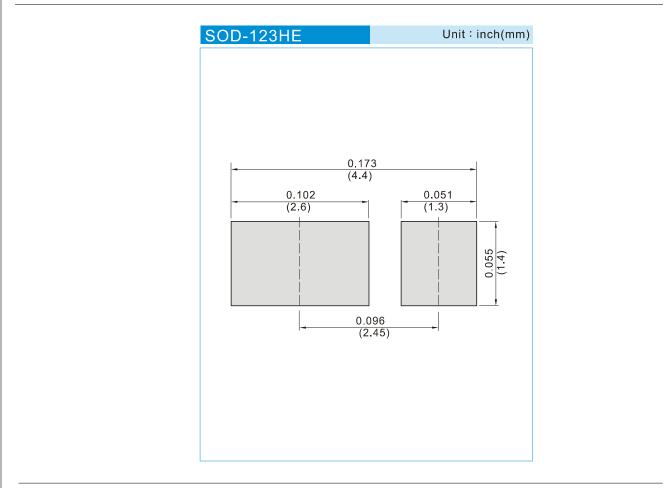
FIG.3 TYPICAL REVERSE CHARACTERISTICS

FIG.4 TYPICAL FORWARD CHARACTERISTICS





MOUNTING PAD LAYOUT



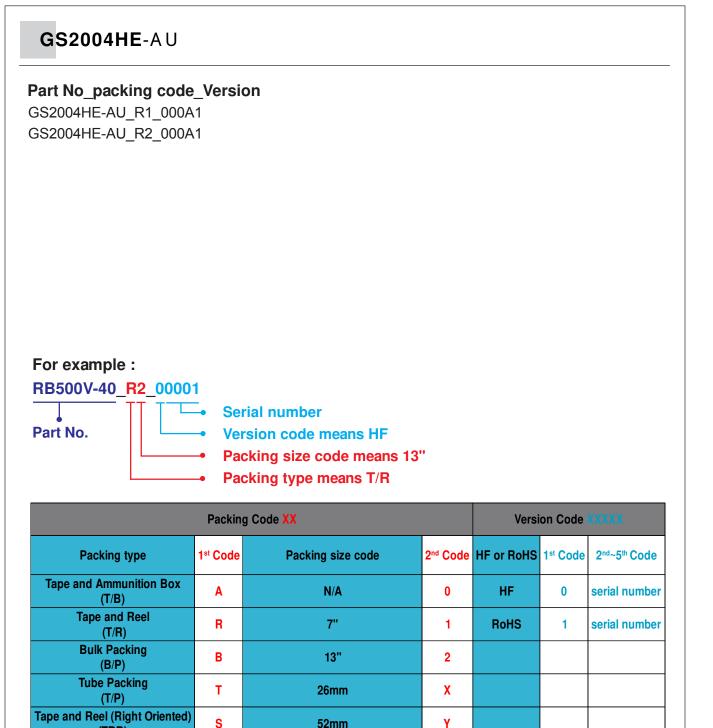
ORDER INFORMATION

Packing information

T/R - 10K per 13" plastic Reel

T/R - 3K per 7" plastic Reel





PANASERT T/B CATHODE UP

(PBCU) PANASERT T/B CATHODE DOWN

(PBCD)

U

D

(TRR) Tape and Reel (Left Oriented)

(TRL)

FORMING

L

F



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