

SS0840WS

SURFACE MOUNT SCHOTTKY BARRIER

VOLTAGE 40 Volt **CURRENT** 0.8 Ampere

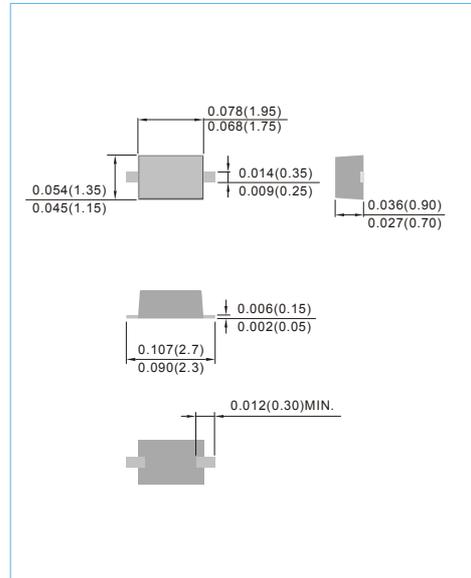
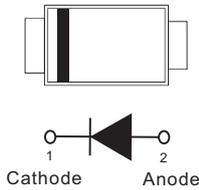
SOD-323 Unit : inch(mm)

FEATURES

- Low turn-on voltage
- Fast switching
- PN Junction Guard Ring for Transient and ESD Protection.
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

MECHANICAL DATA

- Case: SOD-323, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end
- Approx. Weight: 0.00014 ounces, 0.004 grams
- Marking : GW



MAXIMUM RATINGS (T_A=25°C unless otherwise noted)

PARAMETER	SYMBOL	VALUE	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	40	V
Maximum RMS Voltage	V _{RMS}	28	V
Maximum DC Blocking Voltage	V _{DC}	40	V
Maximum Average Forward Current	I _{F(AV)}	0.8	A
Peak forward surge current : 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	8	A
Typical Thermal Resistance (Note 1)	R _{θJA}	650	°C / W
Operating Junction and Storage Temperature Range	T _J , T _{STG}	-55 to +150	°C

NOTE :

1. Mounted on a FR4 PCB, single-sided copper, mini pad.

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

PARAMETER	SYMBOL	VALUE	UNITS
Maximum Instantaneous Forward Voltage	V _F	0.56 @ 0.8A	V
Maximum Reverse Current	I _R	100 @ V _R =40V	uA

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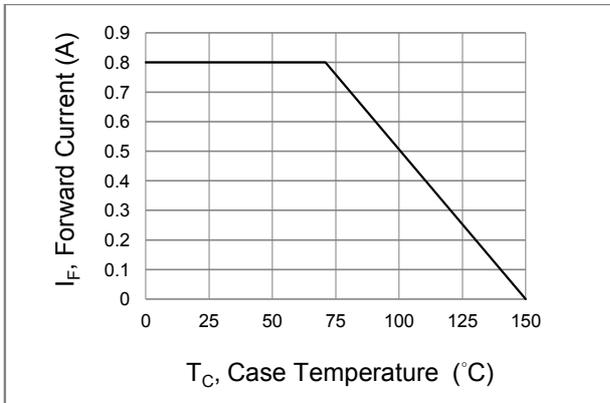


Fig.1 Forward Current Derating Curve

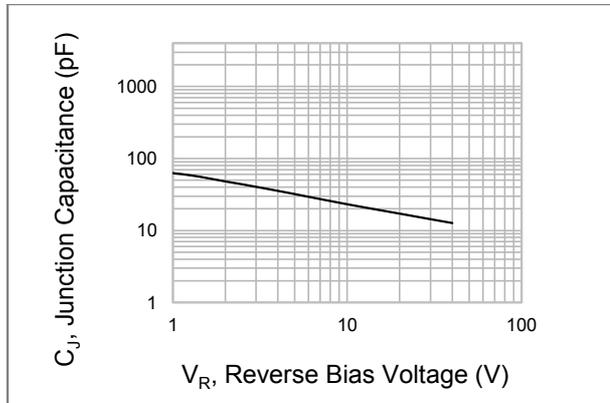


Fig.2 Typical Junction Capacitance

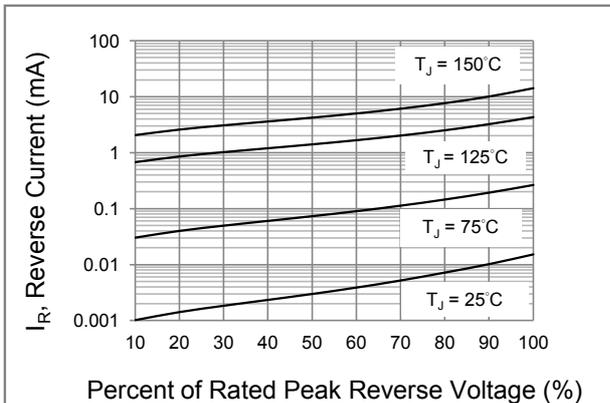


Fig.3 Typical Reverse Characteristics

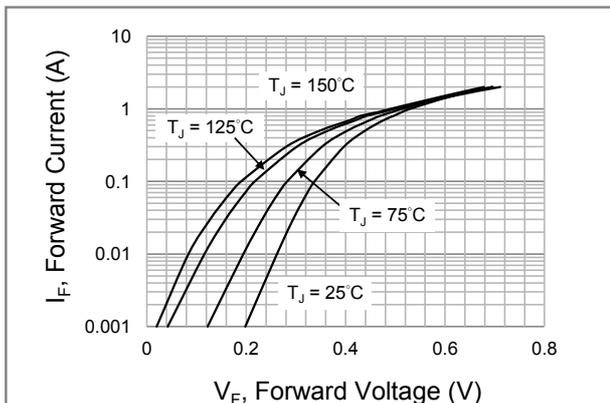


Fig.4 Typical Forward Characteristics

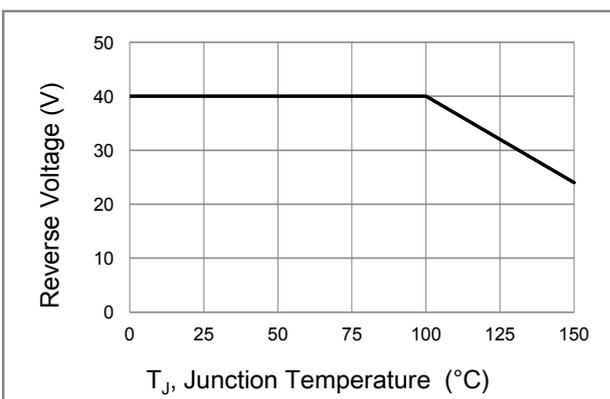


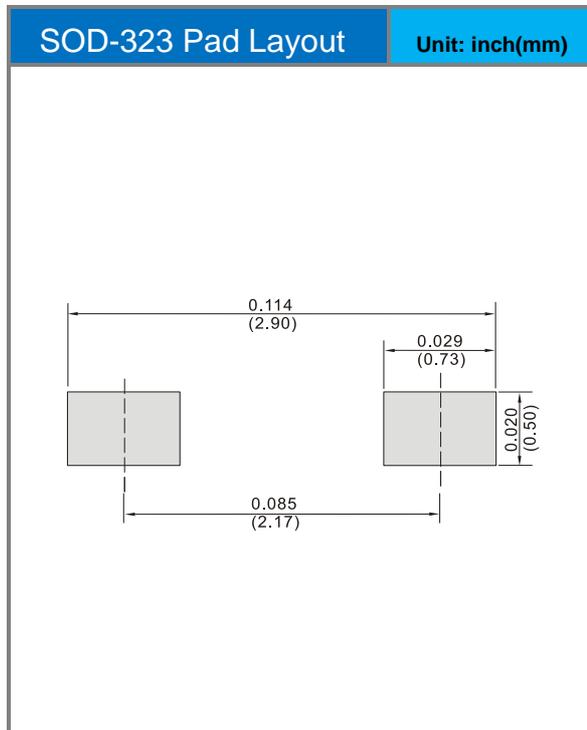
Fig.5 Operating Temperature Derating Curve

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Product and Packing Information

Part No.	Package Type	Packing Type	Marking
SS0840WS	SOD-323	5K pcs / 7" reel	GW
SS0840WS	SOD-323	12K pcs / 13" reel	GW

Mounting Pad Layout



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