

SS0840WS

SURFACE MOUNT SCHOTTKY BARRIER

VOLTAGE 40 Volt **CURRENT** 0.8 Ampere

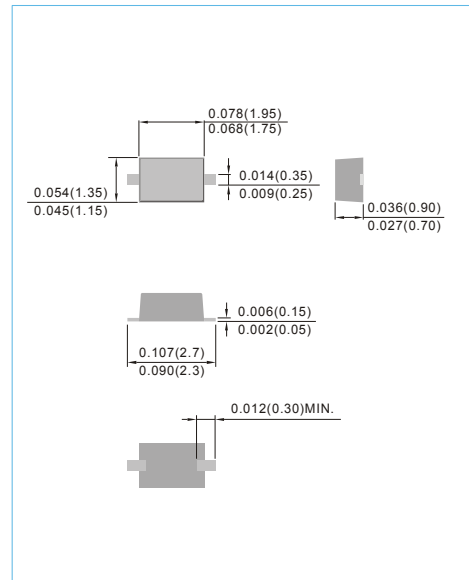
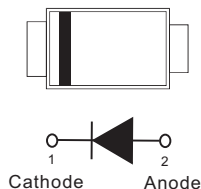
SOD-323 Unit : inch(mm)

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 ($T_A=25^{\circ}\text{C}$ 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)	$R_{\theta JA}$	650	$^{\circ}\text{C} / \text{W}$
Operating Junction and Storage Temperature Range	T_J, T_{STG}	-55 to +150	$^{\circ}\text{C}$

NOTE :

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

ELECTRICAL CHARACTERISTICS ($T_A=25^{\circ}\text{C}$ unless otherwise noted)

PARAMETER	SYMBOL	VALUE	UNITS
Maximum Instantaneous Forward Voltage	V_F	0.56@ 0.8A	V
Maximum Reverse Current	I_R	100@ $V_R=40\text{V}$	μA

SS0840WS

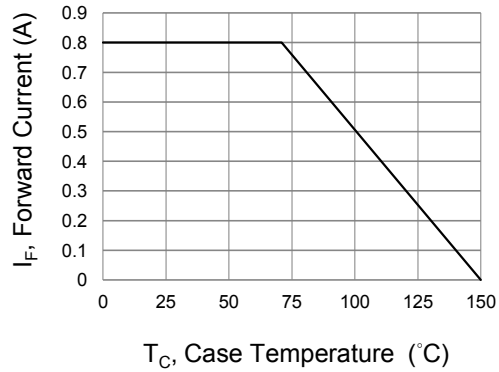


Fig.1 Forward Current Derating Curve

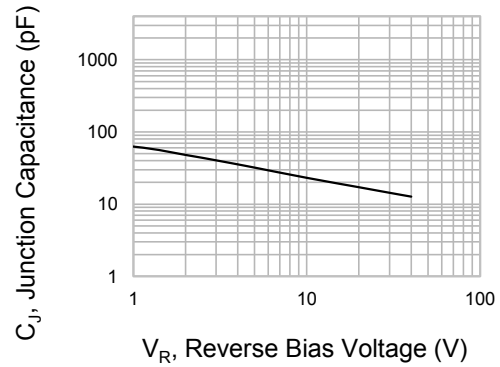


Fig.2 Typical Junction Capacitance

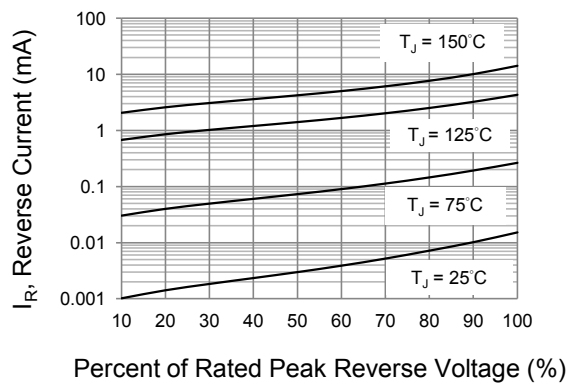


Fig.3 Typical Reverse Characteristics

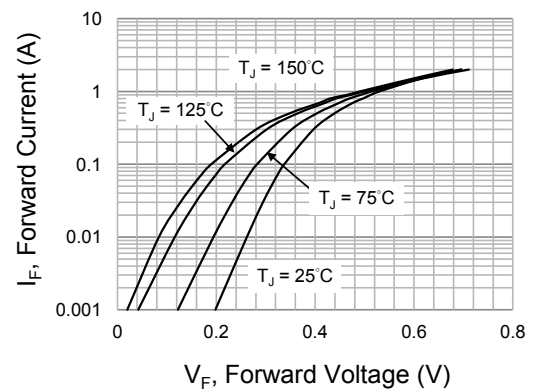


Fig.4 Typical Forward Characteristics

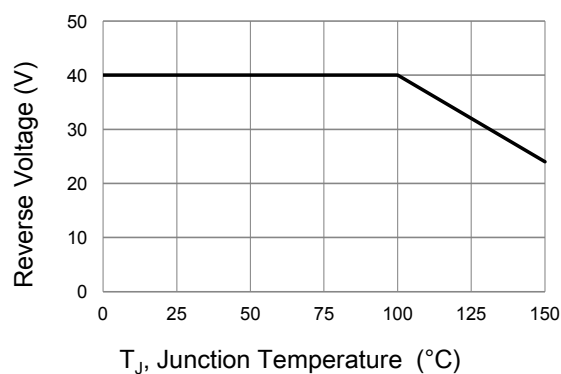


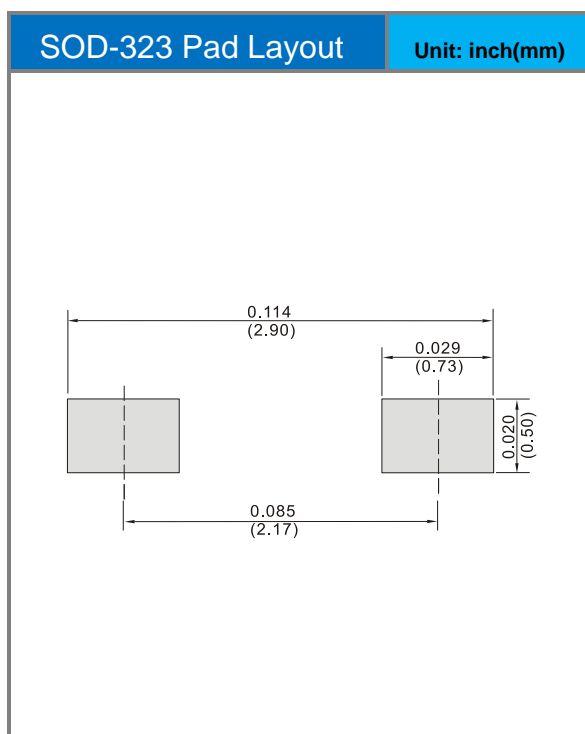
Fig.5 Operating Temperature Derating Curve

SS0840WS

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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