



SURFACE MOUNT SCHOTTKY BARRIER

Voltage 40 V Current 1 A

Features

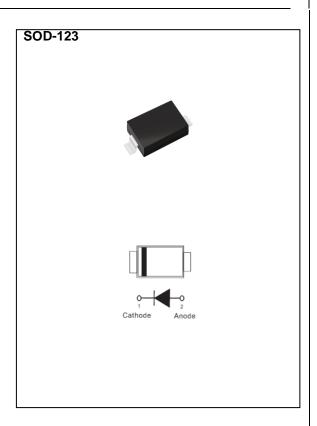
- Low forward voltage drop
- Deal for automated placement
- Low power loss, high efficienc
- High surge current capability
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard
- AEC-Q101 qualified

Mechanical Data

• Case: SOD-123 Package

• Terminals: Solderable per MIL-STD-750, Method 2026

• Approx. Weight: 0.00037 ounces, 0.01 grams



Maximum Ratings and Thermal Characteristics ($T_A = 25^{\circ}C$ unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNITS
Maximum Repetitive 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)}	1	Α
Peak Forward Surge Current: 8.3 ms single half sine-wave superimposed on rated load per diode	I _{FSM}	30	А
Typical Junction Capacitance Measured at 1 MHz And Applied VR = 4V	CJ	45	pF
Typical Thermal Resistance	$R_{\theta JA}^{(1)}$ $R_{\theta JC}^{(2)}$ $R_{\theta JL}^{(2)}$	380 100 200	°C/W
Operating Junction Temperature Range	T _J	-55~125	°C
Storage Temperature Range	T _{STG}	-55~125	°C





Electrical Characteristics (T_A = 25 °C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS	
Forward Voltage	V _F	I _F = 0.5 A, T _J = 25 °C	-	0.44	-	V	
		I _F = 1 A, T _J = 25 °C	-	-	0.55		
		$I_F = 0.5 \text{ A}, T_J = 125 ^{\circ}\text{C}$	-	0.36	-		
		I _F = 1 A, T _J = 125 °C	-	0.47	-		
Reverse Current	I _R ⁽³⁾	$V_R = 32 \text{ V}, T_J = 25 ^{\circ}\text{C}$	-	1.5	-		
		$V_R = 40 \text{ V}, T_J = 25 ^{\circ}\text{C}$	-	-	60	uA	
		V _R = 40 V, T _J = 125 °C	-	2.3	-	mA	

NOTES:

- 1. Mounted on a FR4 PCB, single-sided copper, mini pad.
- 2. Mounted on a FR4 PCB, single-sided copper, with 100 cm² copper pad area
- 3. Short duration pulse test used to minimize self-heating effect





TYPICAL CHARACTERISTIC CURVES

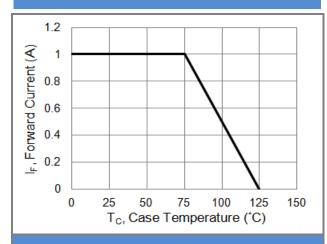


Fig.1 Forward Current Derating Curve

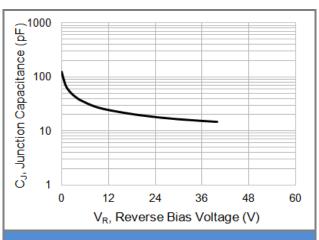


Fig.2 Typical Junction Capacitance

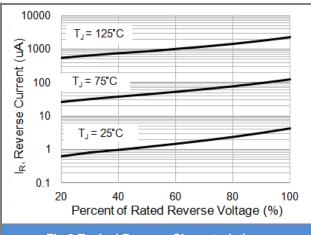


Fig.3 Typical Reverse Characteristics

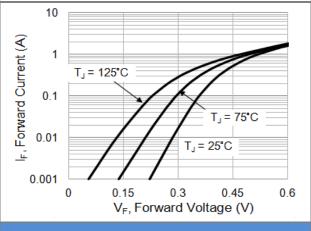


Fig.4 Typical Forward Characteristics

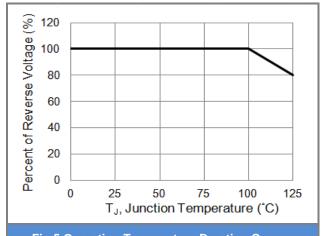


Fig.5 Operating Temperature Derating Curve

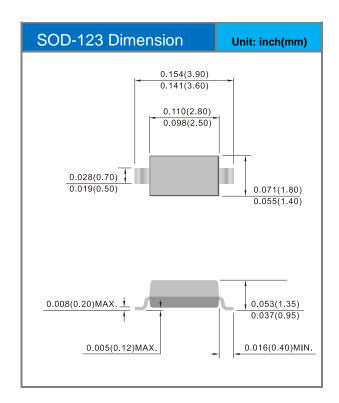


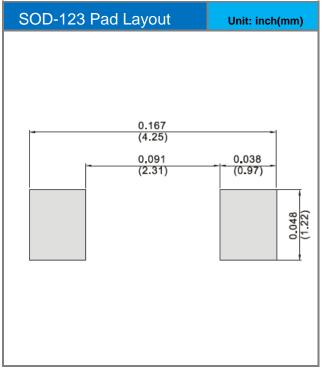


Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
SS1040-AU_R1_000A1	SOD-123	3K / 7" Reel	G5	Halogen free

Packaging Information & Mounting Pad Layout









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