



# SS10150HE-AU

## SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

**Voltage** 150 V **Current** 1 A

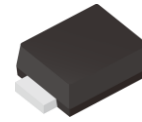
### Features

- Low forward voltage drop
- Deal for automated placement
- Low power loss, high efficiency
- 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-123HE Package
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.0006 ounces, 0.0184 grams

SOD-123HE



### Maximum Ratings and Thermal Characteristics (T<sub>A</sub> = 25 °C unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNITS
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	150	V
Maximum Rms Voltage	V <sub>RMS</sub>	105	V
Maximum Dc Blocking Voltage	V <sub>DC</sub>	150	V
Maximum Average Forward Current	I <sub>F(AV)</sub>	1	A
Peak Forward Surge Current: 8.3 ms single half sine-wave superimposed on rated load per diode	I <sub>FSM</sub>	30	A
Typical Junction Capacitance Measured at 1 MHz And Applied VR = 4V	C <sub>J</sub>	35	pF
Typical Thermal Resistance	R <sub>θJA</sub> <sup>(1)</sup>	185	°C/W
	R <sub>θJC</sub> <sup>(2)</sup>	20	
Operating Junction Temperature Range	T <sub>J</sub>	-55~150	°C
Storage Temperature Range	T <sub>STG</sub>	-55~150	°C



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## Electrical Characteristics ( $T_A = 25^\circ\text{C}$ unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage	$V_F$	$I_F = 0.5\text{ A}, T_J = 25^\circ\text{C}$	-	0.75	-	V
		$I_F = 1\text{ A}, T_J = 25^\circ\text{C}$	-	-	0.85	
		$I_F = 0.5\text{ A}, T_J = 125^\circ\text{C}$	-	0.6	-	
		$I_F = 1\text{ A}, T_J = 125^\circ\text{C}$	-	0.66	-	
Reverse Current	$I_R^{(3)}$	$V_R = 120\text{ V}, T_J = 25^\circ\text{C}$	-	0.1	-	uA
		$V_R = 150\text{ V}, T_J = 25^\circ\text{C}$	-	-	30	
		$V_R = 150\text{ V}, T_J = 125^\circ\text{C}$	-	0.1	-	mA

**NOTES:**

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



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## TYPICAL CHARACTERISTIC CURVES

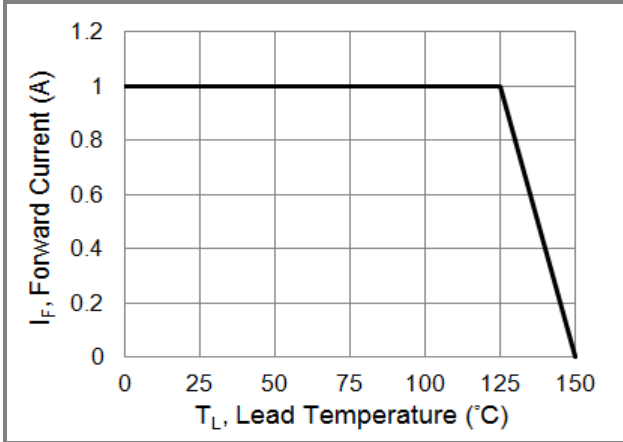


Fig.1 Forward Current Derating Curve

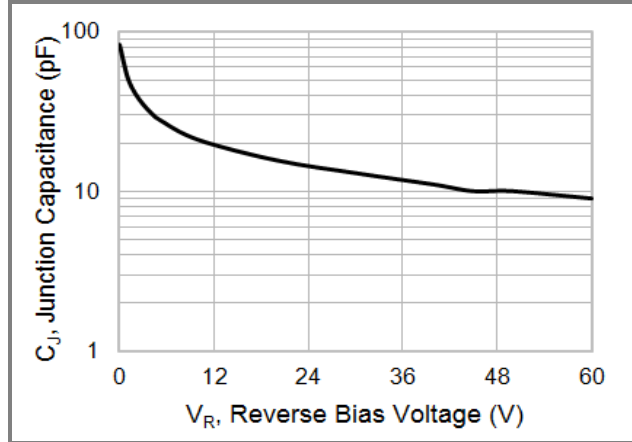


Fig.2 Typical Junction Capacitance

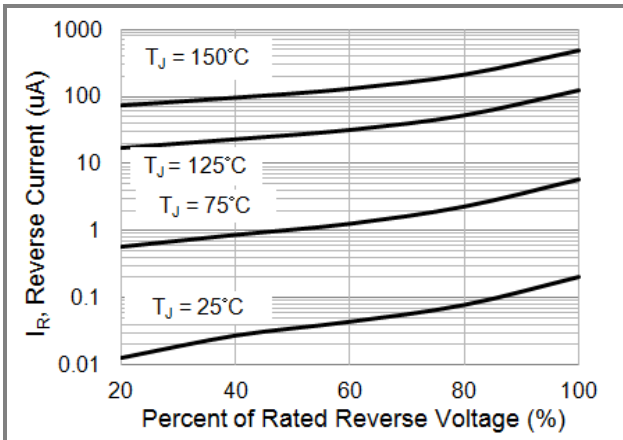


Fig.3 Typical Reverse Characteristics

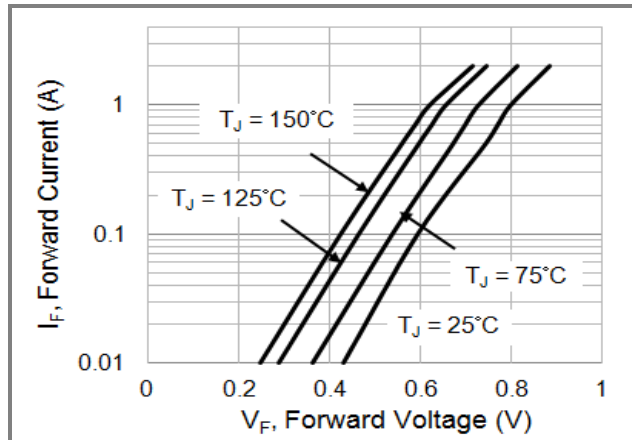


Fig.4 Typical Forward Characteristics

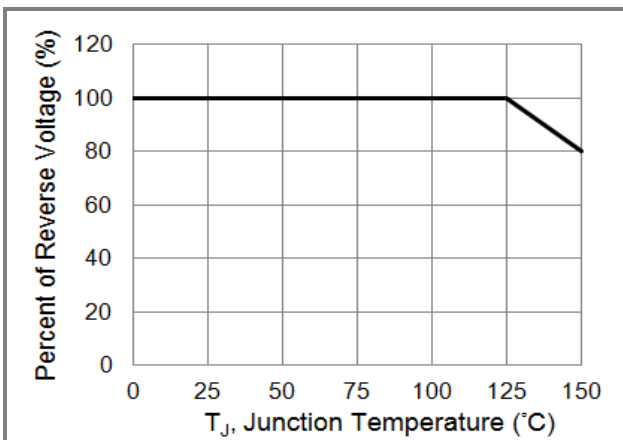


Fig.5 Operating Temperature Derating Curve

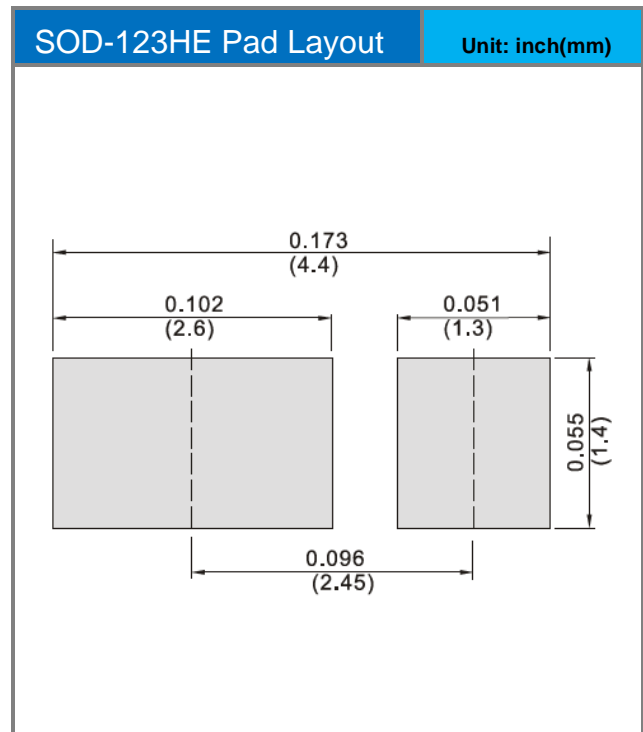
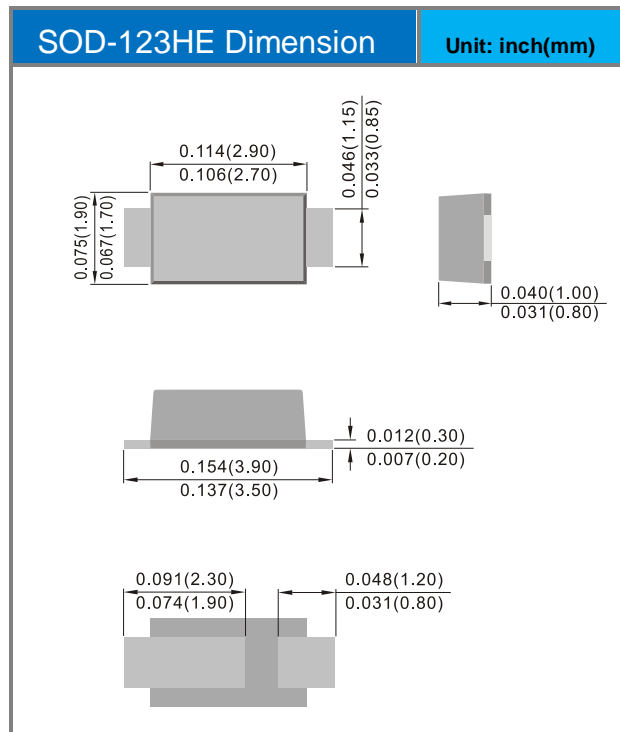


# SS10150HE-AU

## Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
SS10150HE-AU_R1_000A1	SOD-123HE	3K / 7" Reel	ERL	Halogen free

## Packaging Information & Mounting Pad Layout





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