SS1040HE-AU	
SURFACE MOUNT SCHOTTKY BARRIER RECTIFIE	
Voltage   40 V   Current   1 A	SOD-123HE
Features	
<ul> <li>Low forward voltage drop</li> <li>Deal for automated placement</li> <li>Low power loss, high efficiency</li> <li>High surge current capability</li> <li>Lead free in compliance with EU RoHS 2.0</li> <li>Green molding compound as per IEC 61249 standard</li> <li>AEC-Q101 qualified</li> </ul>	
Mechanical Data	
<ul> <li>Case: SOD-123HE Package</li> <li>Terminals: Solderable per MIL-STD-750, Method 2026</li> <li>Approx. Weight: 0.0006 ounces, 0.0184 grams</li> </ul>	Cathode Anode

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

PARAMETER	SYMBOL	LIMIT	UNITS
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	40	V
Maximum Rms Voltage	V <sub>RMS</sub>	28	V
Maximum Dc Blocking Voltage	V <sub>DC</sub>	40	V
Maximum Average Forward Current	I <sub>F(AV)</sub>	1	А
Peak Forward Surge Current: 8.3 ms single half sine-wave superimposed on rated load per diode	I <sub>FSM</sub>	30	А
Typical Junction Capacitance Measured at 1 MHz And Applied VR = 4V	CJ	60	pF
Typical Thermal Resistance	${\sf R}_{ extsf{ heta}JA}^{(1)}$ ${\sf R}_{ extsf{ heta}JC}^{(2)}$	185 20	°C/W
Operating Junction Temperature Range	TJ	-55~150	°C
Storage Temperature Range	T <sub>STG</sub>	-55~150	°C





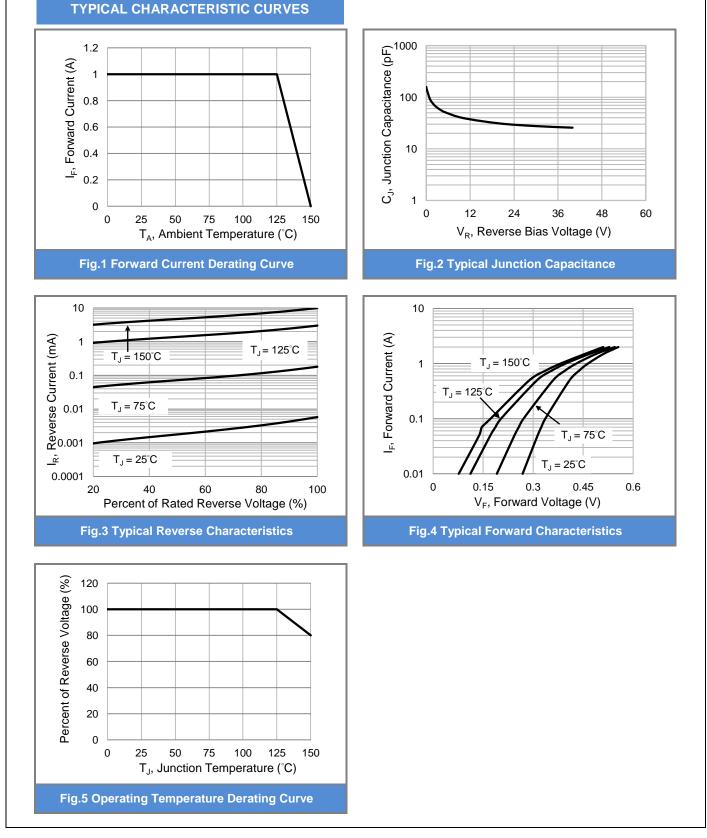


### **Electrical Characteristics** ( $T_A = 25^{\circ}C$ unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage	V <sub>F</sub>	$I_F = 0.5 \text{ A}, \text{ T}_J = 25 \degree \text{C}$	-	0.41	-	V
		$I_{\rm F} = 1 \text{ A}, \text{ T}_{\rm J} = 25 ^{\circ}\text{C}$	-	-	0.5	
		I <sub>F</sub> = 0.5 A, T <sub>J</sub> = 125 °C	-	0.31	-	
		I <sub>F</sub> = 1 A, T <sub>J</sub> = 125 °C	-	0.4	-	
Reverse Current	I <sub>R</sub> <sup>(3)</sup>	$V_R = 32 V, T_J = 25 °C$	-	3.3	-	uA
		$V_{R} = 40 \text{ V}, \text{ T}_{J} = 25 ^{\circ}\text{C}$	-	-	30	
		$V_{R} = 40 \text{ V}, \text{ T}_{J} = 125 ^{\circ}\text{C}$	-	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 cm<sup>2</sup> copper pad area
- 3. Short duration pulse test used to minimize self-heating effect







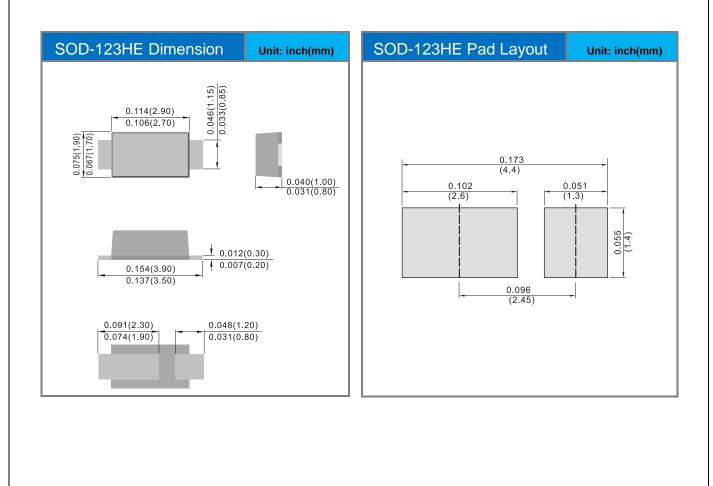




#### Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
SS1040HE-AU_R1_000A1	SOD-123HE	3K / 7" Reel	EM	Halogen free

#### Packaging Information & Mounting Pad Layout





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