



SS1040HEWS-AU

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

Voltage 40 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-323HE Package

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

• Approx. Weight: 0.0002 ounces, 0.005 grams





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Maximum Ratings and Thermal Characteristics (T_A = 25 °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}	22	А
Typical Junction Capacitance Measured at 1 MHz And Applied VR = 4V	CJ	50	pF
Typical Thermal Resistance	$R_{\theta JA}^{(1)}$ $R_{\theta JC}^{(2)}$ $R_{\theta JL}^{(3)}$	250 50 50	°C/W
Operating Junction Temperature Range	TJ	-55~150	°C
Storage Temperature Range	T _{STG}	-55~150	°C

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

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS	
Forward Voltage	V _F	I _F = 0.7 A, T _J = 25 °C	ı	0.43	1	V	
		I _F = 1 A, T _J = 25 °C	1	-	0.58		
		I _F = 0.7 A, T _J = 125 °C	ı	0.36	ı		
		I _F = 1 A, T _J = 125 °C	-	0.41	-		
Reverse Current	I _R ⁽⁴⁾	$V_R = 5 \text{ V}, T_J = 25 ^{\circ}\text{C}$	1	1	ı		
		$V_R = 40 \text{ V}, T_J = 25 ^{\circ}\text{C}$	ı	-	100	uA	
		V _R = 40 V, T _J = 125 °C	-	2.5	-	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. Mounted on a FR4 PCB, single-sided copper, with 15 mm x 50 mm copper pad area
- 4. Short duration pulse test used to minimize self-heating effect

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TYPICAL CHARACTERISTIC CURVES

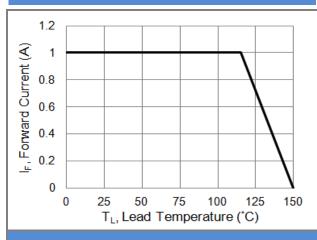
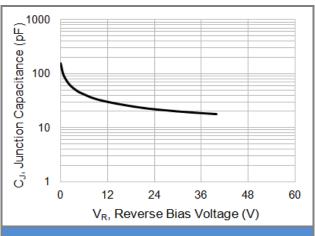


Fig.1 Forward Current Derating Curve



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Fig.2 Typical Junction Capacitance

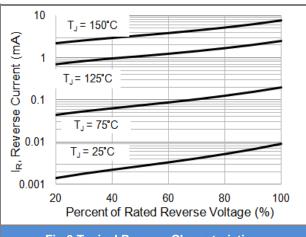
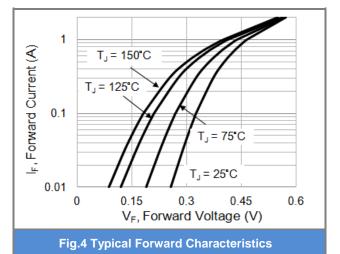


Fig.3 Typical Reverse Characteristics



% 120
ebt 100
Ft 20
0
0
25 50 75 100 125 150
T_J, Junction Temperature (*C)

Fig.5 Operating Temperature Derating Curve

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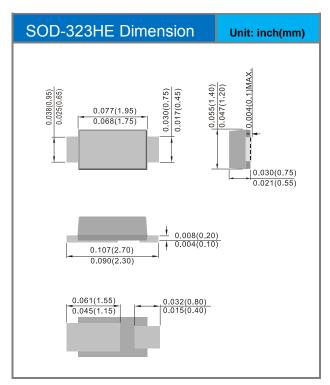
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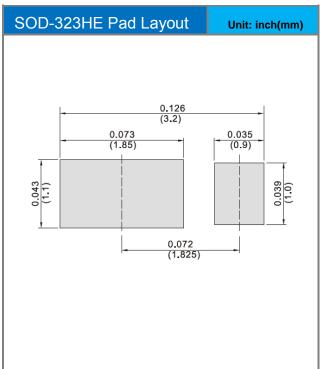
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Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
SS1040HEWS-AU_R1_000A1	SOD-323HE	5K / 7" Reel	EV	Halogen free

Packaging Information & Mounting Pad Layout





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