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	SEMI CONDUCTOR

SS1030HEWS-AU SCHOTTKY BARRIER RECTIFIER SOD-323HE Voltage 30 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

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

PARAMETER	SYMBOL	LIMIT	UNITS
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	30	V
Maximum Rms Voltage	V _{RMS}	21	V
Maximum Dc Blocking Voltage	V _{DC}	30	V
Maximum Average Forward Current	I _{F(AV)}	1	А
Peak Forward Surge Current: 8.3 ms Single Half Sine- Wave Superimposed On Rated Load	I _{FSM}	22	А
Typical Junction Capacitance Measured at 1 MHZ And Applied $V_B = 4 V$	CJ	70	pF
Typical Thermal Resistance	${R_{\theta JA}}^{(1)}$ ${R_{\theta JC}}^{(2)}$	300 50	°C/W
Operating Junction Temperature Range	TJ	-55~150	°C
Storage Temperature Range	T _{STG}	-55~150	°C



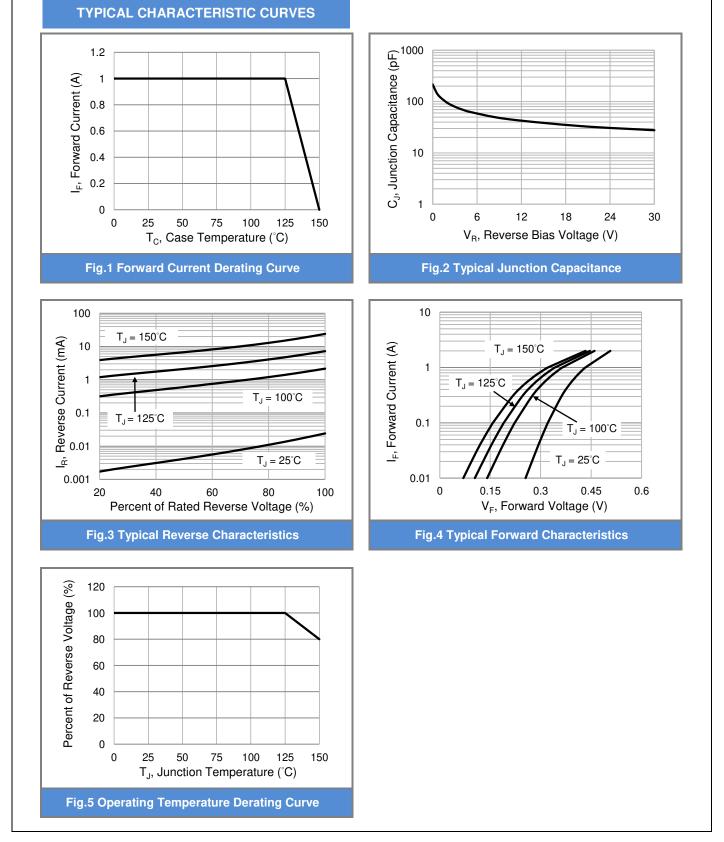


Electrical Characteristics ($T_A = 25^{\circ}C$ unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage V _F		$I_F = 0.5 \text{ A}, T_J = 25 ^{\circ}\text{C}$	-	0.38	-	V
	N	$I_F = 1 \text{ A}, \text{T}_J = 25 ^{\circ}\text{C}$	-	-	0.52	
	V _F	I _F = 0.5 A, T _J = 125 °C	-	0.28	-	
		I _F = 1 A,T _J = 125 °C	-	0.34	-	
Reverse Current I _R ⁽³⁾	$V_{R} = 21 V, T_{J} = 25 °C$	-	8	-		
	$I_R^{(3)}$	$V_{R} = 30 V, T_{J} = 25 °C$	-	-	100	uA
		$V_{R} = 30 \text{ V}, \text{ T}_{J} = 125 ^{\circ}\text{C}$	-	7.2	-	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.



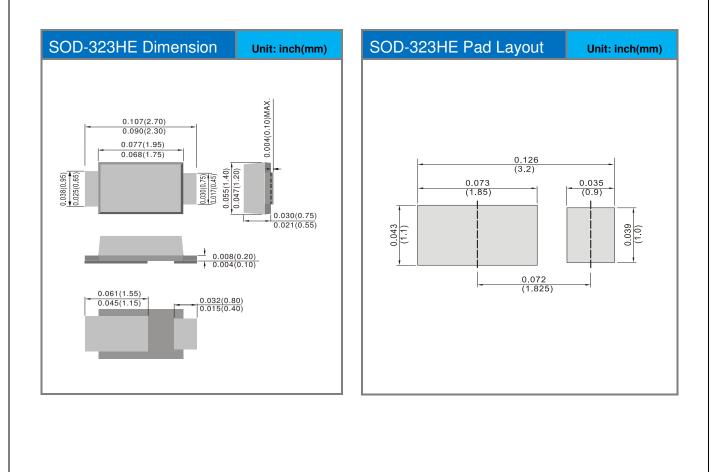




Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
SS1030HEWS-AU_R1_000A1	SOD-323HE	5K pcs / 7" reel	ET	Halogen free

Packaging Information & Mounting Pad Layout





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