



SS10150HE-AU

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

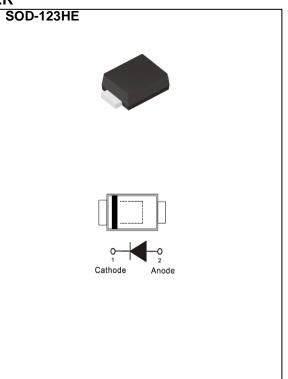
Voltage 150 V Current 1 A

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



Part Number: SS10150HE-AU

Maximum Ratings and Thermal Characteristics (T_A = 25°C unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNITS
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	150	V
Maximum Rms Voltage	V _{RMS}	105	V
Maximum Dc Blocking Voltage	V _{DC}	150	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	Α
Typical Junction Capacitance Measured at 1 MHz And Applied VR = 4V	СJ	35	pF
Typical Thermal Resistance	R _{θJA} ⁽¹⁾	185 20	°C/W
Operating Junction Temperature Range	TJ	-55~150	°C
Storage Temperature Range	Тѕтс	-55~150	°C

August 7,2017-REV.06 Fax: 02-25215390 極象有限公司 Tel: 02-25651052 Page 1





Part Number: SS10150HE-AU

SS10150HE-AU

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	-	0.75	-	V
		I _F = 1 A, T _J = 25 °C	ı	ı	0.85	
		I _F = 0.5 A, T _J = 125 °C	ı	0.6	1	
		I _F = 1 A, T _J = 125 °C	ı	0.66	1	
Reverse Current	I _R ⁽³⁾	V _R = 120 V, T _J = 25 °C	-	0.1	-	uA
		V _R = 150 V, T _J = 25 °C	ı	ı	30	
		V _R = 150 V, T _J = 125 °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 cm² copper pad area
- 3. Short duration pulse test used to minimize self-heating effect

August 7,2017-REV.06 Fax: 02-25215390 極象有限公司 Tel: 02-25651052 Page 2





SS10150HE-AU

TYPICAL CHARACTERISTIC CURVES

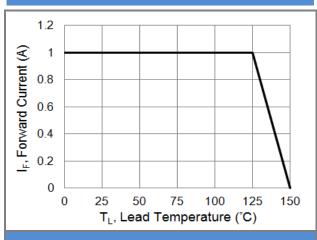


Fig.1 Forward Current Derating Curve

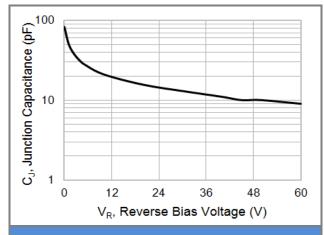


Fig.2 Typical Junction Capacitance

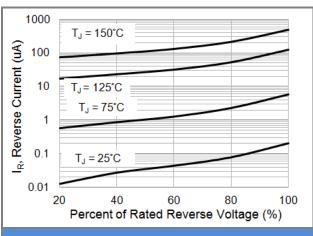


Fig.3 Typical Reverse Characteristics

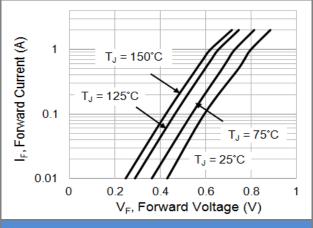


Fig.4 Typical Forward Characteristics

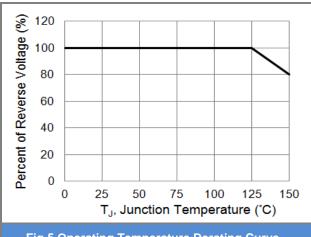


Fig.5 Operating Temperature Derating Curve

 August 7,2017-REV.06
 Fax : 02-25215390
 極象有限公司
 Tel : 02-25651052
 Page 3





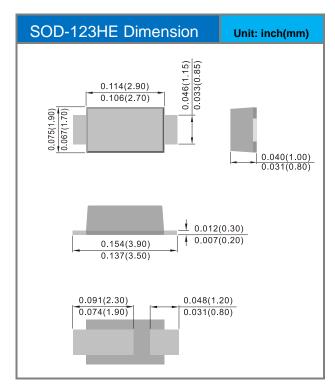
Part Number: SS10150HE-AU

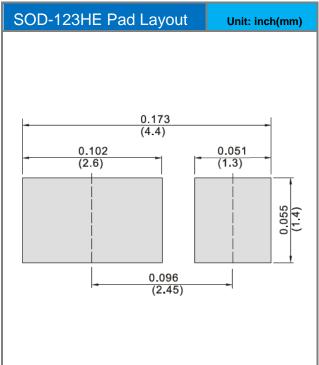
SS10150HE-AU

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





 August 7,2017-REV.06
 Fax : 02-25215390
 極象有限公司
 Tel : 02-25651052
 Page 4

Approval Sheet

Part Number : SS10150HE-AU



SS10150HE-AU

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August 7,2017-REV.06 Fax: 02-25215390 極象有限公司 Tel: 02-25651052 Page 5