September	5,2017-REV.07
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oltage 60 V Current 1 A	SOD-123HE
tures	
h conductor	
w power loss, high efficiency	
gh surge current capability	
ead free in compliance with EU RoHS 2.0 reen molding compound as per IEC 61249 standard	
EC-Q101 qualified	
chanical Data	
ase: SOD-123HE Package	
erminals: Solderable per MIL-STD-750, Method 2026	Cathode Anode
pprox. Weight: 0.0006 ounces, 0.018 grams	

J

PARAMETER	SYMBOL	LIMIT	UNITS	
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	60	V	
Maximum Rms Voltage	V _{RMS}	42	V	
Maximum Dc Blocking Voltage	V _{DC}	60	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}	30	A	
Typical Junction Capacitance Measured at 1 MHZ And Applied $V_R = 4 V$	CJ	50	pF	
T · · · T · · · · ·	$R_{\theta JA}^{(1)}$	185	00.00	
Typical Thermal Resistance	$R_{\theta JC}^{(2)}$	20	°C/W	
Operating Junction Temperature Range	TJ	-55~150	°C	
Storage Temperature Range	T _{STG}	-55~150	°C	









SS1060HE-AU

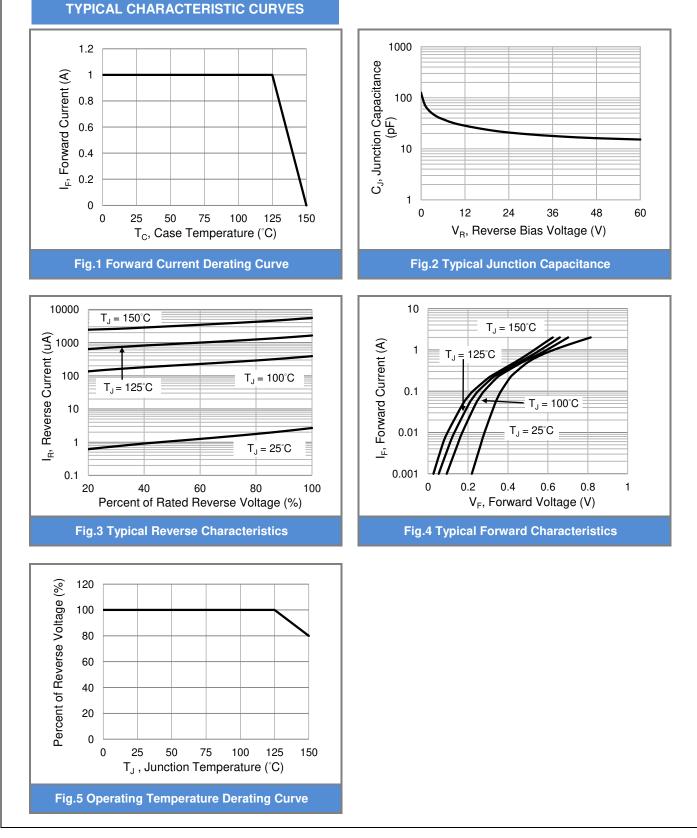
Electrical Characteristics ($T_A = 25^{\circ}C$ unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage	V _F	$I_F = 0.5 \text{ A}, \text{ T}_J = 25 ^{\circ}\text{C}$	-	0.5	-	V
		$I_F = 1 \text{ A}, T_J = 25 ^{\circ}\text{C}$	-	-	0.7	
		$I_F = 0.5 \text{ A}, T_J = 125 ^{\circ}\text{C}$	-	0.46	-	
		$I_F = 1 \text{ A}, \text{T}_J = 125 ^{\circ}\text{C}$	-	0.56	-	
Reverse Current	I _R ⁽³⁾	$V_{R} = 48 V, T_{J} = 25 °C$	-	1.78	-	uA
		$V_{R} = 60 \text{ V}, \text{ T}_{J} = 25 ^{\circ}\text{C}$	-	-	30	
		$V_{R} = 60 \text{ V}, \text{ T}_{J} = 125 ^{\circ}\text{C}$	-	1.6	-	mA

NOTES:

- 1. Mounted on a FR4 PCB, single-sided copper, mini pad.
- 2. Mounted on a FR4 PCB, single-sided copper, with 100cm² copper pad area.
- 3. Short duration pulse test used to minimize self-heating effect.

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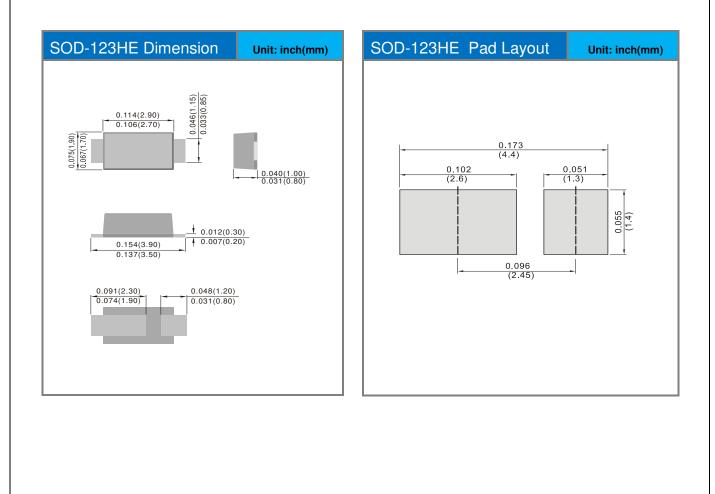


SS1060HE-AU

Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
SS1060HE-AU_R1_000A1	SOD-123HE	3K / 7" Reel	EN	Halogen free

Packaging Information & Mounting Pad Layout





SS1060HE-AU

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