

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

PARAMETER	SYMBOL	LIMIT	UNITS	
Maximum Repetitive Peak Reverse Voltage	Vrrm	60	V	
Maximum Rms Voltage	V _{RMS}	42	V	
Maximum Dc Blocking Voltage	V _{DC}	60	V	
Maximum Average Forward Current	I _{F(AV)}	3	A	
Peak Forward Surge Current: 8.3 ms Single Half Sine- Wave Superimposed On Rated Load	IFSM	80	А	
Typical Junction Capacitance Measured at 1 MHZ And Applied $V_R = 4 V$	CJ	125	pF	
	R _{0JA}	105		
Typical Thermal Resistance ^(Note 2)	R _{θJC}	20	°C/W	
	$R_{\theta JL}$	20		
Operating Junction Temperature Range	TJ	-55~150	°C	
Storage Temperature Range	Тѕтс	-55~150	°C	







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

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage ^(Note 1)	VF	I _F = 1 A, T _J = 25 °C	-	0.43	-	V
		I _F = 3 A, T _J = 25 °C	-	-	0.65	
		I⊧ = 1 A, TJ = 125 °C	-	0.36	-	
		I _F = 3 A, T _J = 125 °C	-	0.56	-	
Reverse Current ^(Note 3)	I _R	V _R = 48 V, T _J = 25 °C	-	9	-	uA
		$V_R = 60 \text{ V}, \text{ T}_J = 25 ^{\circ}\text{C}$	-	-	100	
		V _R = 60 V, T _J = 125 °C	-	7	-	mA

NOTES:

- 1. Pulse Test with PW =300usec, 1% Duty Cycle.
- 2. Mounted on 50cm² FR-4 PCB Board.
- 3. Short duration pulse test used to minimize self-heating effect.



3.5 I_F, FORWARD CURRENT (A) 3 2.5 2 1.5 1 0.5 0 0 25 50 75 100 125 150 T_L, LEAD TEMPERATURE (°C) Fig.1- FORWARD CURRENT DERATING CURVE

RATING AND CHARACTERISTIC CURVES

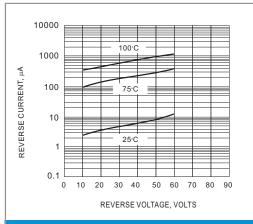
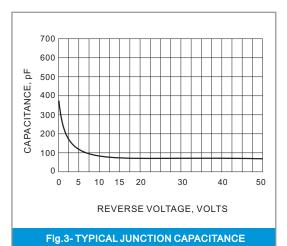
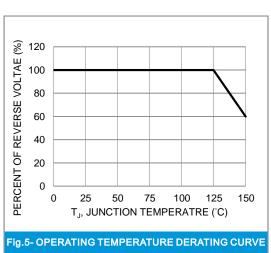


Fig.2- TYPICAL REVERSE CHARACTERISTICS





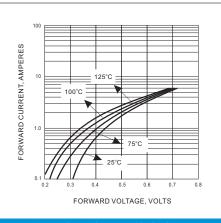


Fig.4- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

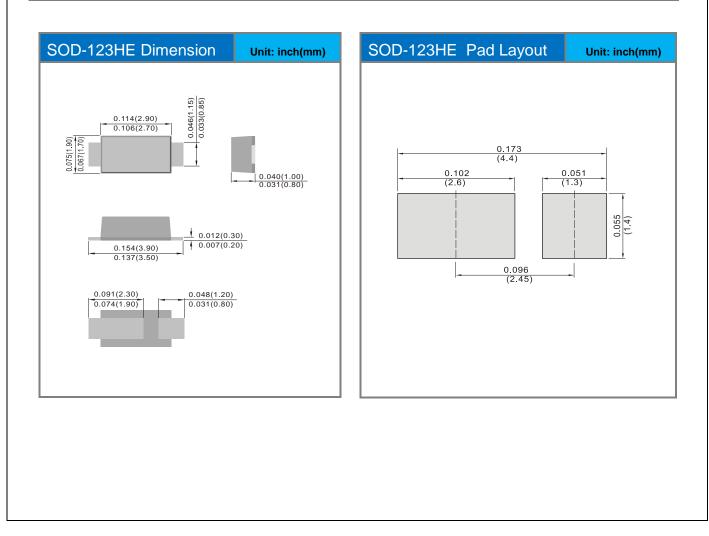
June 18,2020



Part No. Packing Code Version

Part No. Packing Code	Package Type	Packing Type	Marking	Version
SS3060HE-AU_R1_000A1	SOD-123HE	3K / 7" Reel	ED	Halogen free

Packaging Information & Mounting Pad Layout





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