

#### Maximum Ratings and Thermal Characteristics (T<sub>A</sub> = 25°C unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNITS
Maximum Repetitive Peak Reverse Voltage	Vrrm	60	V
Maximum Rms Voltage	V <sub>RMS</sub>	42	V
Maximum Dc Blocking Voltage	V <sub>DC</sub>	60	V
Maximum Average Forward Current	I <sub>F(AV)</sub>	3	А
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	180	pF
Typical Thermal Resistance	R <sub>θJA</sub> <sup>(1)</sup> R <sub>θJC</sub> <sup>(2)</sup>	185 20	°C/W
Operating Junction Temperature Range	TJ	-55~150	°C
Storage Temperature Range	Tstg	-55~150	°C





# SSM3060VHE-AU

#### **Electrical Characteristics** (T<sub>A</sub> = 25°C unless otherwise noted)

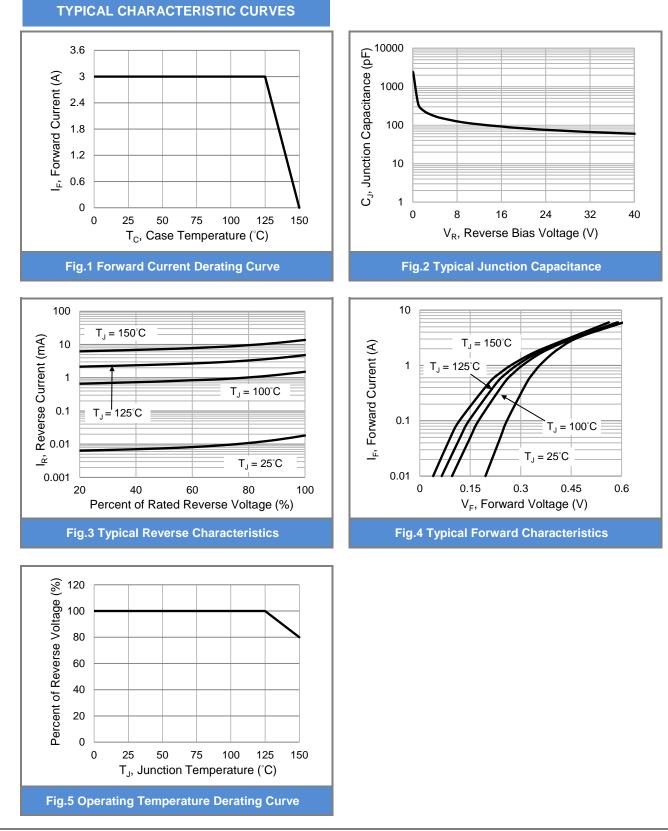
PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS	
Forward Voltage	VF	I <sub>F</sub> = 1 A, T <sub>J</sub> = 25 °C	-	0.36	-	V	
		I <sub>F</sub> = 3 A, T <sub>J</sub> = 25 °C	-	-	0.5		
		I⊧ = 1 A, TJ = 125 °C	-	0.29	-		
		I <sub>F</sub> = 3 A, T <sub>J</sub> = 125 °C	-	0.45	-		
Reverse Current	I <sub>R</sub> <sup>(3)</sup>	$V_R = 48 V, T_J = 25 \circ C$	-	11	-		
		$V_R = 60 V, T_J = 25 °C$	-	-	220	uA	
		V <sub>R</sub> = 60 V, T <sub>J</sub> = 125 °C	-	5	-	mA	

NOTES:

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

November 18,2021





# SSM3060VHE-AU





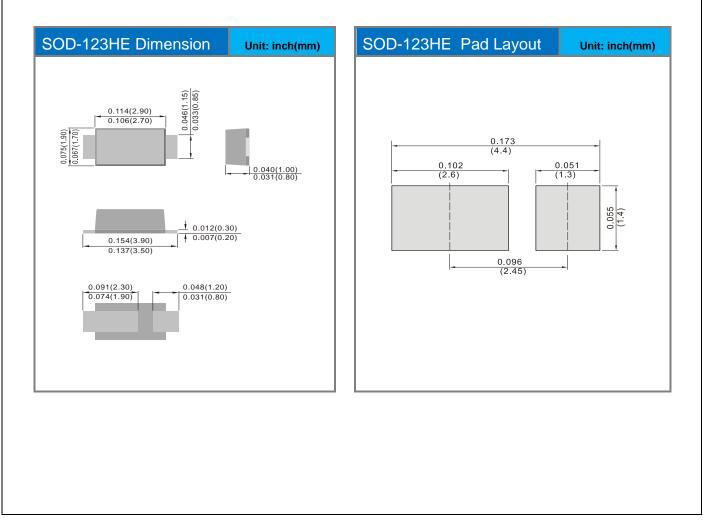


# SSM3060VHE-AU

#### Part No. Packing Code Version

Part No. Packing Code	Package Type	Packing Type	Marking	Version
SSM3060VHE-AU_R1_000A1	SOD-123HE	3K / 7" Reel	SMV	Halogen free RoHS compliant

## Packaging Information & Mounting Pad Layout





## SSM3060VHE-AU

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