

SSM3060VHE

ULTRA LOW VF SCHOTTKY RECTIFIER

VOLTAGE 60 Volt **CURRENT** 3 Ampere

FEATURES

- Ideal for automated placement
- Ultra low forward voltage drop, low power losses
- High efficiency operation
- Low thermal resistance
- Ultra thin profile package for space constrained utilization
- Package suitable for automated handling
- Lead free in comply with EU RoHS 2011/65/EU directives.
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

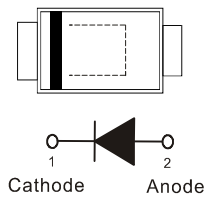
Case : SOD-123HE, Plastic

Terminals : Solderable per MIL-STD-750, Method 2026

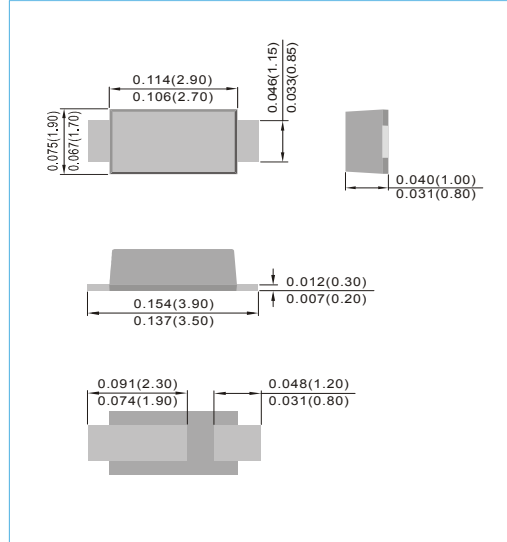
Polarity : Color band denotes cathode end

Weight : 0.00015 ounces, 0.00424 grams

Marking : SMV



SOD-123HE Unit : inch(mm)



MAXIMUM RATINGS(T_A=25°C unless otherwise noted)

PARAMETER	SYMBOL	VALUE	UNIT
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	60	V
Maximum RMS Voltage	V _{RMS}	42	V
Maximum DC Blocking Voltage	V _R	60	V
Maximum Average Rectified Output Current	I _{F(AV)}	3	A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	80	A
Typical Junction Capacitance (V _R =4V, f=1MHz)	C _J	200	pF
Typical Thermal Resistance (Note 1) (Note 2)	R _{θJL} R _{θJA}	15 170	°C/W
Operating Junction Temperature Range And Storage Temperature Range	T _J ,T _{STG}	-55 to + 150	°C

NOTES:1.Mounted on a FR4 PCB, single-sided copper, with 100cm² copper pad area
2.Mounted on a FR4 PCB, single-sided copper, mini pad.

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ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN.	TYP.	MAX.	UNIT
Breakdown voltage	V _{BR}	I _R =0.5mA	60	-	-	V
Instantaneous forward voltage	V _F	I _F =1A	-	0.35	-	V
		I _F =2A	-	0.41	-	
		I _F =3A	-	0.46	0.5	
		I _F =1A	-	0.28	-	V
		I _F =2A	-	0.36	-	
Reverse current	I _R	V _R =48V	-	20	-	μA
		V _R =60V	-	-	220	μA
		T _J =25°C	-	8	-	mA
		T _J =125°C	-	-	-	

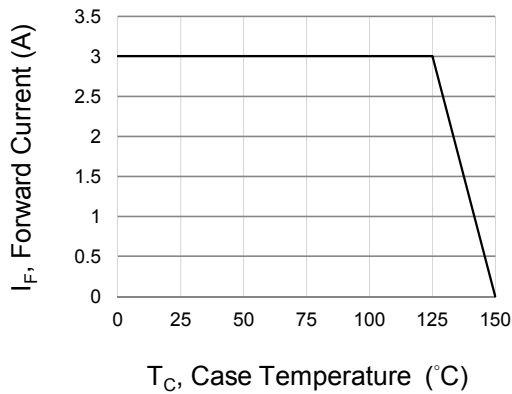


Fig.1 Forward Current Derating Curve

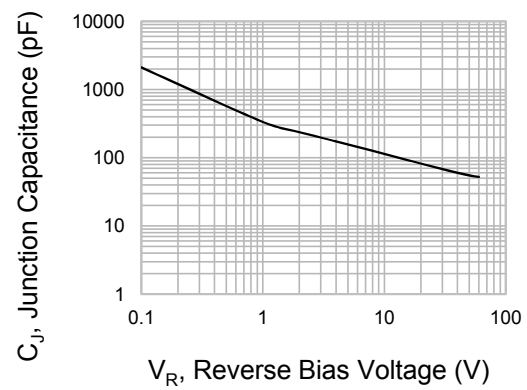


Fig.2 Typical Junction Capacitance

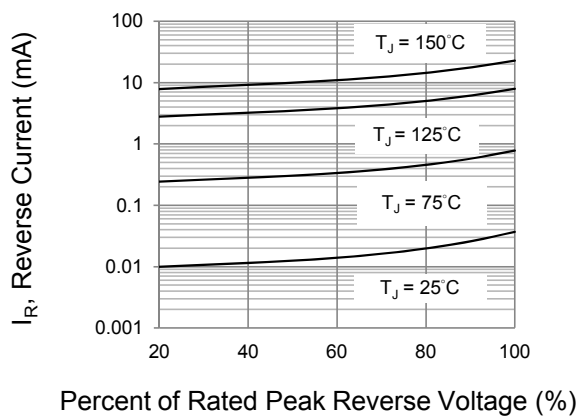


Fig.3 Typical Reverse Characteristics

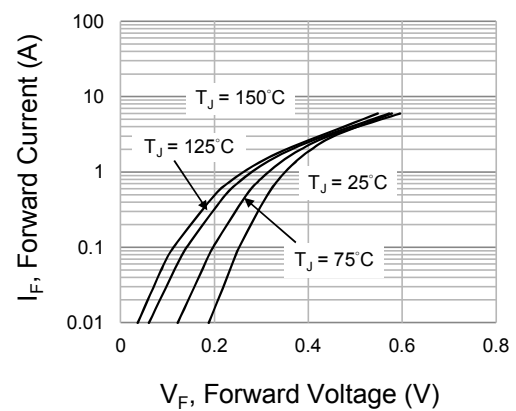


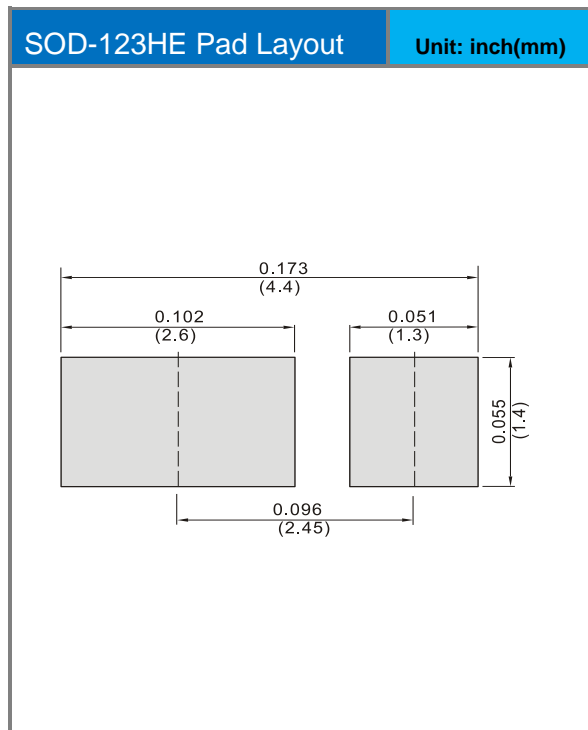
Fig.4 Typical Forward Characteristics

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Product and Packing Information

Part No.	Package Type	Packing Type	Marking
SSM3060VHE	SOD-123HE	3K pcs / 7" reel	SMV
SSM3060VHE	SOD-123HE	10K pcs / 13" reel	SMV

Mounting Pad Layout



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