



#### **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)

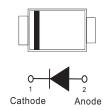
#### **MECHANICAL DATA**

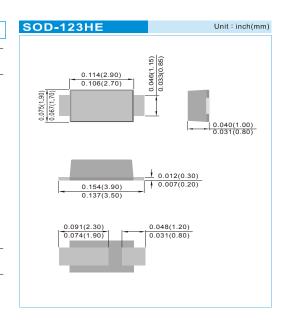
Case: SOD-123HE, Plastic

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

Polarity: Color band denotes cathode end Weight: 0.00015 ounces, 0.00424 grams

Marking: SMV





#### MAXIMUM RATINGS(Ta=25°C unless otherwise noted)

PARAMETER		SYMBOL	VALUE	UNIT
Maximum Recurrent Peak Reverse Voltage		VRRM	60	V
Maximum RMS Voltage		VRMS	42	V
Maximum DC Blocking Voltage		VR	60	V
Maximum Average Rectified Output Current		l F(AV)	3	Α
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load		IFSM	80	Α
Typical Junction Capacitance (VR=4V, f=1MHz)		Сл	200	pF
Typical Thermal Resistance	(Note 1) (Note 2)	Røjl Røja	15 170	°C/W
Operating Junction Temperature Range And Storage Temperature Range		TJ,TsTG	-55 to + 150	۰C

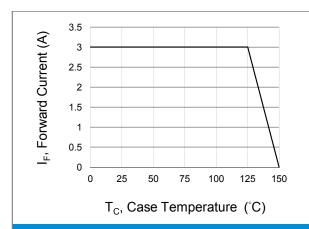
NOTES:1.Mounted on a FR4 PCB, single-sided copper, with 100cm  $\,^2$  copper pad area 2.Mounted on a FR4 PCB, single-sided copper, mini pad.



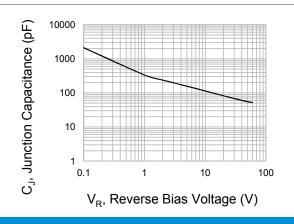


#### ELECTRICAL CHARACTERISTICS (Ta=25°C unless otherwise noted)

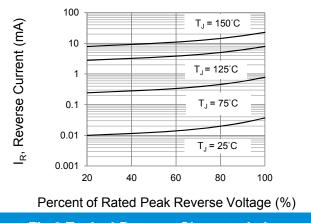
PARAMETER	SYMBOL	TEST CONDITIONS		MIN.	TYP.	MAX.	UNIT
Breakdown voltage	VBR	I R=0.5mA		60	-	-	V
Instantaneous forward voltage	VF	F=1A   F=2A   F=3A   F=1A   F=2A	TJ=25°C TJ=125°C	- - - -	0.35 0.41 0.46 0.28 0.36	- 0.5 -	V
Reverse current	l R	V <sub>R</sub> =48V		-	20	-	μА
		VR=60V	TJ=25°C TJ=125°C	-	- 8	220 -	μA mA



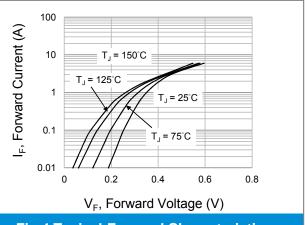
**Fig.1 Forward Current Derating Curve** 



**Fig.2 Typical Junction Capacitance** 



**Fig.3 Typical Reverse Characteristics** 

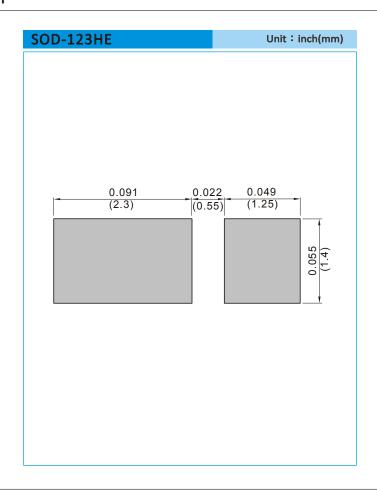


**Fig.4 Typical Forward Characteristics** 





#### MOUNTING PAD LAYOUT



#### ORDER INFORMATION

· Packing information

T/R - 10K per 13" plastic Reel

T/R - 3K per 7" plastic Reel





## Part No\_packing code\_Version

SSM3060VHE\_R1\_00001 SSM3060VHE\_R2\_00001

# For example : RB500V-40\_R2\_00001 Part No. Serial number Version code means HF Packing size code means 13" Packing type means T/R

Packing Code XX			Version Code XXXXX			
Packing type	1 <sup>st</sup> Code	Packing size code	2 <sup>nd</sup> Code	HF or RoHS	1 <sup>st</sup> Code	2 <sup>nd</sup> ~5 <sup>th</sup> Code
Tape and Ammunition Box (T/B)	A	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	В	13"	2			
Tube Packing (T/P)	Т	26mm	X			
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y			
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U			
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D			





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