



# SBM560VSS

## ULTRA LOW VF SCHOTTKY RECTIFIER

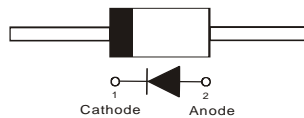
**VOLTAGE** 60 Volt **CURRENT** 5 Ampere

### FEATURES

- Ultra low forward voltage drop, low power loss
- High efficiency operation
- Lead free in compliance with EU RoHS 2011/65/EU directive

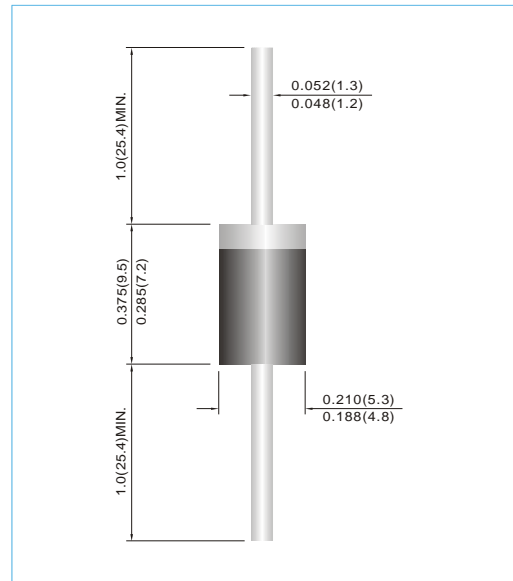
### MECHANICAL DATA

- Case : Molded plastic, DO-201AD
- Terminals : Axial leads,solderable per MIL-STD-750, Method 2026
- Polarity : Color band denotes cathode end
- Approx weight : 0.0402 ounces, 1.142 grams



### DO-201AD

Unit : inch(mm)



### MAXIMUM RATINGS( $T_A=25^\circ\text{C}$ unless otherwise noted)

PARAMETER	SYMBOL	VALUE	UNIT
Maximum repetitive peak reverse voltage	$V_{RRM}$	60	V
Maximum rms voltage	$V_{RMS}$	42	V
Maximum dc blocking voltage	$V_R$	60	V
Maximum average forward rectified current	$I_{F(AV)}$	5	A
Peak forward surge current : 8.3ms single half sine-wave superimposed on rated load	$I_{FSM}$	120	A
Typical thermal resistance (Note 1)	$R_{\theta JA}$ $R_{\theta JL}$	45 25	$^\circ\text{C}/\text{W}$
Operating junction temperature range	$T_J$	-55 to + 150	$^\circ\text{C}$
Storage temperature range	$T_{STG}$	-55 to + 150	$^\circ\text{C}$

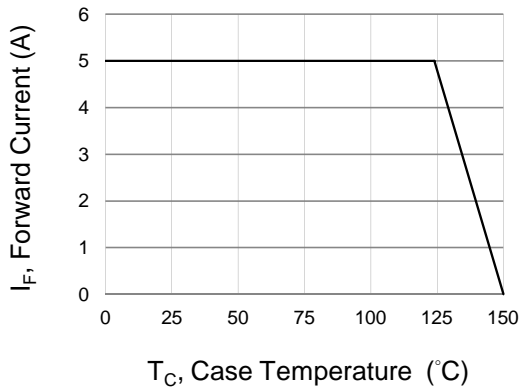
### ELECTRICAL CHARACTERISTICS( $T_A=25^\circ\text{C}$ unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN.	TYP.	MAX.	UNIT
Breakdown voltage	$V_{BR}$	$I_R=0.5\text{mA}$	60	-	-	V
Instantaneous forward voltage	$V_F$	$I_F=1\text{A}$ $T_J=25^\circ\text{C}$	-	0.33	-	V
		$I_F=3\text{A}$ $T_J=25^\circ\text{C}$	-	0.4	-	V
		$I_F=5\text{A}$ $T_J=25^\circ\text{C}$	-	0.46	0.52	V
		$I_F=1\text{A}$ $T_J=125^\circ\text{C}$	-	0.24	-	V
Reverse current	$I_R$	$V_R=48\text{V}$ $T_J=25^\circ\text{C}$	-	25	-	$\mu\text{A}$
		$V_R=60\text{V}$ $T_J=25^\circ\text{C}$	-	-	220	$\mu\text{A}$
		$V_R=60\text{V}$ $T_J=125^\circ\text{C}$	-	8.5	-	$\text{mA}$

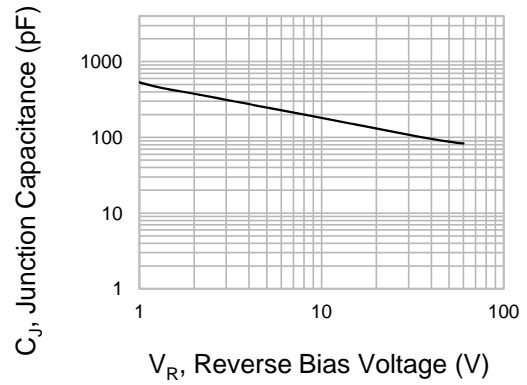
Note : 1.The testing condition of the thermal resistance (junction to ambient and junction to lead) is based on 10mm lead length between two 10x10cm copper pad heatsinks.



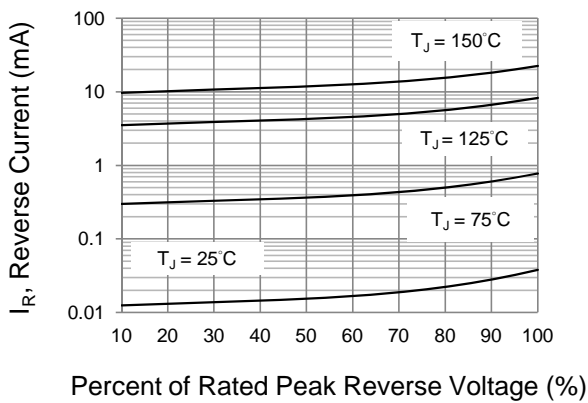
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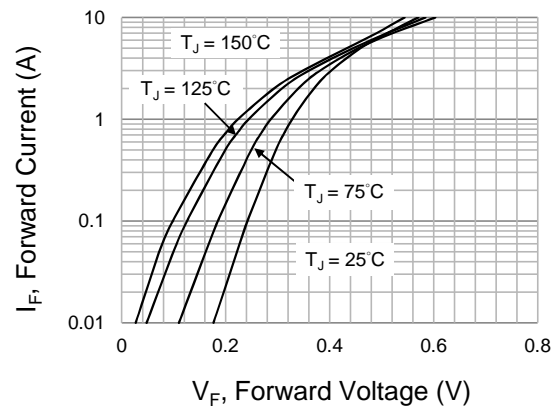
**Fig.1 Forward Current Derating Curve**



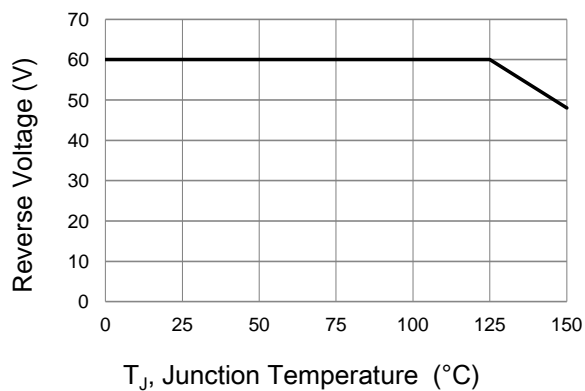
**Fig.2 Typical Junction Capacitance**



**Fig.3 Typical Reverse Characteristics**



**Fig.4 Typical Forward Characteristics**



**Fig.5 Operating Temperature Derating Curve**



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## Part No\_packing code\_Version

SBM560VSS\_AY\_00001  
 SBM560VSS\_AY\_10001  
 SBM560VSS\_B0\_00001  
 SBM560VSS\_B0\_10001  
 SBM560VSS\_R2\_00001  
 SBM560VSS\_R2\_10001

For example :

**RB500V-40\_R2\_00001**



Packing Code <b>XX</b>				Version Code <b>XXXXX</b>		
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)	B	13"	2			
Tube Packing (T/P)	T	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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