



SBM860VSS

ULTRA LOW VF SCHOTTKY RECTIFIER

VOLTAGE 60 Volt **CURRENT** 8 Ampere

FEATURES

- Ultra low forward voltage drop, low power losses
- High efficiency operation
- Lead free in comply with EU RoHS 2011/65/EU directives

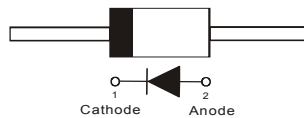
MECHANICAL DATA

Case : Molded plastic, DO-201AD

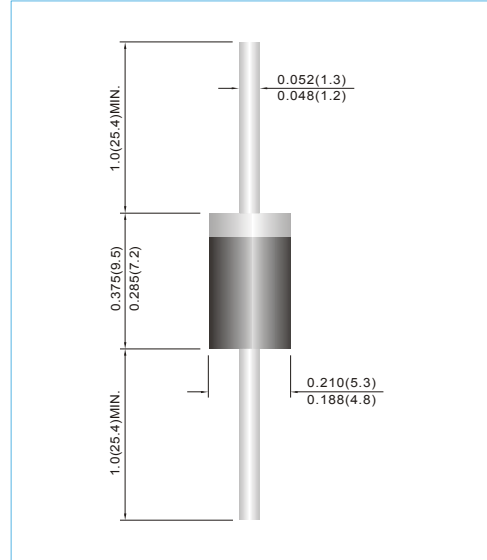
Terminals : Axial leads, solderable per MIL-STD-750, Method 2026

Polarity : Color band denotes cathode end

Approx weight : 0.0402 ounces, 1.142 grams



DO-201AD Unit : inch(mm)



MAXIMUM RATINGS(T_A=25°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)}	8	A
Peak forward surge current : 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	150	A
Typical thermal resistance (Note 1)	R _{θJA} R _{θJL}	40 23	°C/W
Operating junction temperature range	T _J	-55 to + 150	°C
Storage temperature range	T _{STG}	-55 to + 150	°C

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 I _F =5A I _F =8A T _J =25°C	-	0.31 0.42 0.49	- - 0.55	V
		I _F =1A I _F =5A T _J =125°C	-	0.22 0.39	- -	V
		V _R =48V	-	38	-	μA
		V _R =60V T _J =25°C T _J =125°C	- -	- 12	220 -	μA mA

Note : 1.The testing condition of the thermal resistance (junction to ambient and junction to lead) is based on 0.375"(9.5mm) lead length between two 10x10cm copper pad heatsinks.



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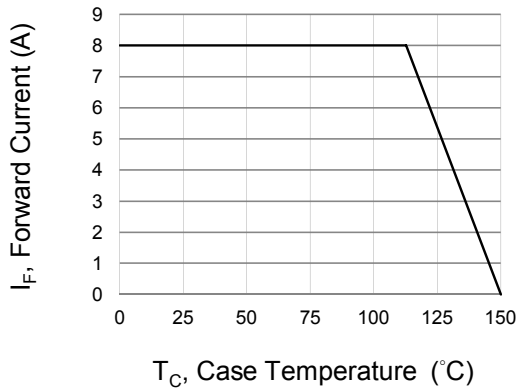


Fig.1 Forward Current Derating Curve

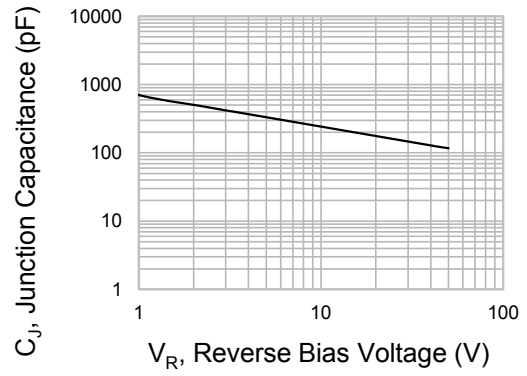


Fig.2 Typical Junction Capacitance

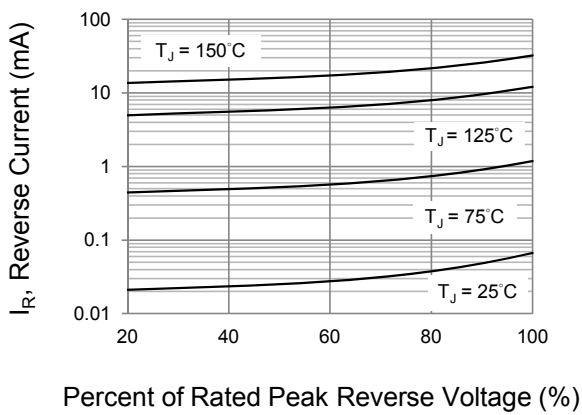


Fig.3 Typical Reverse Characteristics

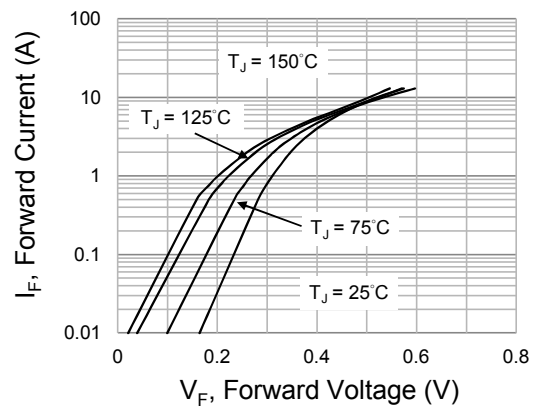


Fig.4 Typical Forward Characteristics



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Part No_packing code_Version

SBM860VSS_AY_00001
 SBM860VSS_AY_10001
 SBM860VSS_B0_00001
 SBM860VSS_B0_10001
 SBM860VSS_R2_00001
 SBM860VSS_R2_10001

For example :

RB500V-40_R2_00001



Packing Code XX				Version Code XXXXX		
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th 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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