



ULTRA LOW VF SCHOTTKY RECTIFIER

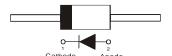
VOLTAGE 60 Volt CURRENT 5 Ampere

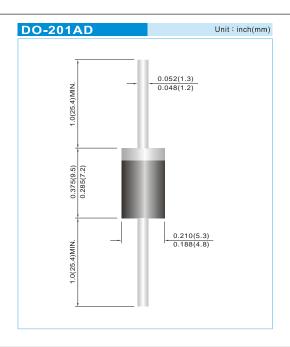
FEATURES

- 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





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

PARAMETER	SYMBOL	VALUE	UNIT
Maximum repetitive peak reverse voltage	VRRM	60	V
Maximum rms voltage	VRMS	42	V
Maximum dc blocking voltage	VR	60	V
Maximum average forward rectified current	l F(AV)	5	А
Peak forward surge current: 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	120	А
Typical thermal resistance (Note	e 1) Roja Rojl	45 25	°C/W
Operating junction temperature range	TJ	-55 to + 150	°C
Storage temperature range	Тѕтс	-55 to + 150	°C

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=3A F=5A	TJ=25°C	- - -	0.33 0.4 0.46	- - 0.52	V
		I F=1A I F=3A	TJ=125°C	- -	0.24 0.36	- -	V
Reverse current		VR=48V		-	25	-	μА
	IR	VR=60V	TJ=25°C TJ=125°C	-	- 8.5	220	μA 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.





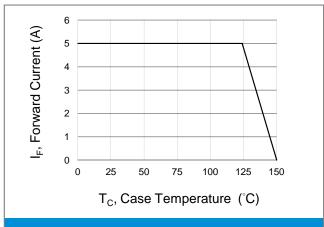


Fig.1 Forward Current Derating Curve

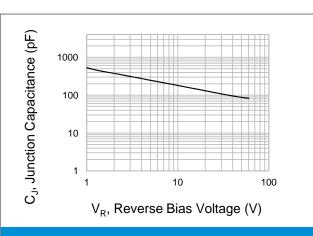


Fig.2 Typical Junction Capacitance

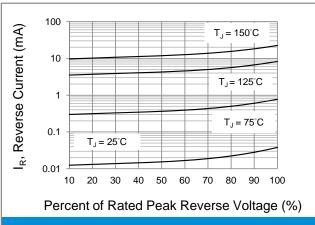


Fig.3 Typical Reverse Characteristics

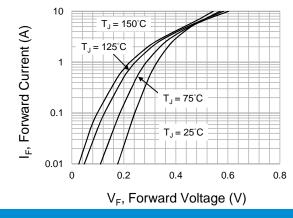


Fig.4 Typical Forward Characteristics

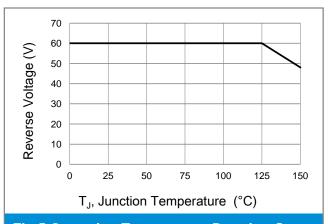


Fig.5 Operating Temperature Derating Curve





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 :



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)	Α	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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