



ULTRA LOW VF SCHOTTKY RECTIFIER

VOLTAGE 60 Volt CURRENT 8 Ampere

FEATURES

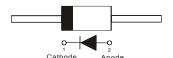
- Ultra low forward voltage drop, low power losses
- · High efficiency operation
- · Lead free in comply with EU RoHS 2011/65/EU directives

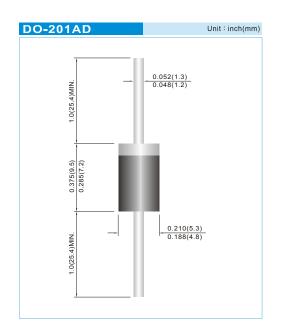
MECHANICAL DATA

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





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)	8	Α
Peak forward surge current : 8.3ms single half sine-wave superimposed on rated load		IFSM	150	Α
Typical thermal resistance	(Note 1)	R⊕ja R⊕jl	40 23	°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=5A F=8A	TJ=25°C	- - -	0.31 0.42 0.49	- - 0.55	V
		I F=1A I F=5A	TJ=125°C	- -	0.22 0.39	- -	٧
Reverse current	1-	VR=48V		-	38	-	μА
	IR	VR=60V	TJ=25°C TJ=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.





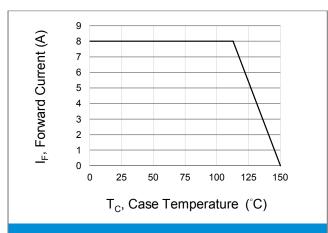


Fig.1 Forward Current Derating Curve

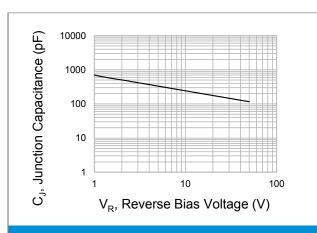


Fig.2 Typical Junction Capacitance

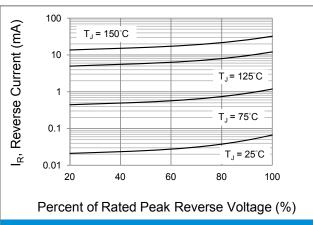


Fig.3 Typical Reverse Characteristics

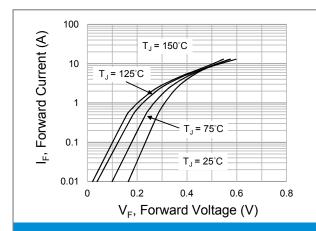


Fig.4 Typical Forward Characteristics





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:



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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