### ULTRA LOW VF SCHOTTKY RECTIFIER

CURRENT

## VOLTAGE

### FEATURES

· Ultra low forward voltage drop, low power losses

60 Volt

- · High efficiency operation
- · Lead free in comply with EU RoHS 2011/65/EU directives

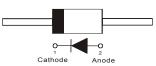
### **MECHANICAL DATA**

Case : Molded plastic, DO-201AD

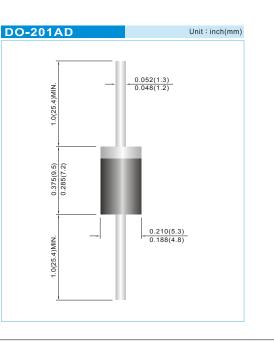
Terminals : Axial leads, solderable per MIL-STD-750, Method 2026

Polarity : Color band denotes cathode end

Approx weight : 0.0402 ounces, 1.142 grams



8 Ampere



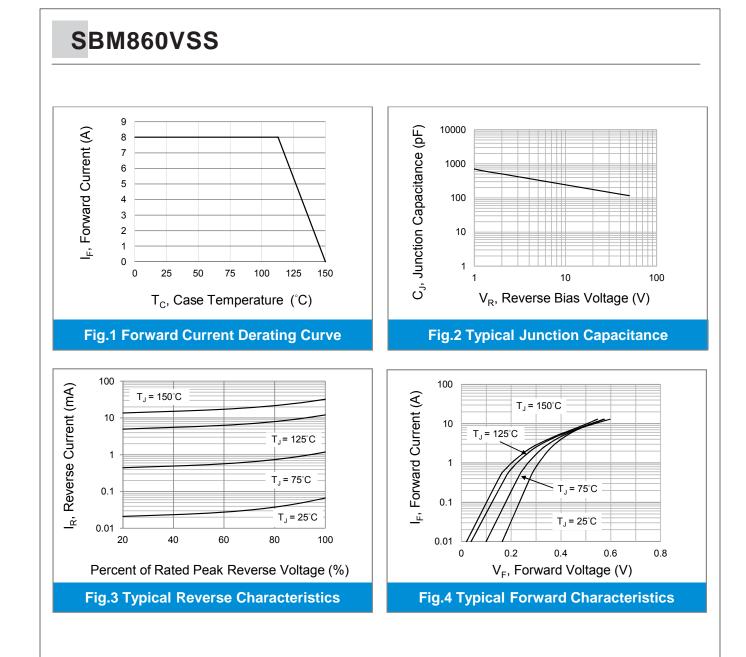
#### MAXIMUM RATINGS(TA=25°C unless otherwise noted)

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	A
Peak forward surge current : 8.3ms single half sine-wave superimposed on rated load		I FSM	150	А
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	I F=1A I F=5A I F=8A	TJ=25°C	- -	0.31 0.42 0.49	- - 0.55	v
		I	TJ=125°C	-	0.22 0.39	-	V
Reverse current	l r	Vr=48V		-	38	-	μA
		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.











# SBM860VSS

## 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



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)	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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