



EXTREME LOW VF SCHOTTKY RECTIFIER

VOLTAGE 50 Volts CURRENT 15 Amperes

FEATURES

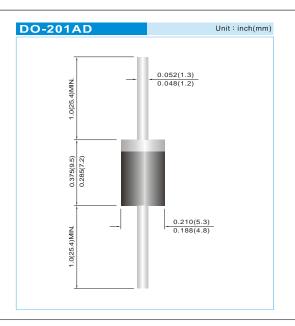
- Extreme low forward voltage drop, low power losses
- · High efficiency operation
- Lead free in comply with EU RoHS 2011/65/EU directives

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)

		T		
PARAMETER		SYMBOL	VALUE	UNIT
Maximum repetitive peak reverse voltage		VRRM	50	٧
Maximum rms voltage		VRMS	35	٧
Maximum dc blocking voltage		VR	50	٧
Maximum average forward rectified current		l F(AV)	15	Α
Peak forward surge current: 8.3ms single half sine-wave superimposed on rated load		IFSM	300	А
Typical thermal resistance	(Note 1)	R⊕ja R⊕jl	25 10	°C/W
Operating junction temperature range		TJ	-55 to + 150	°C
Storage temperature range		Тѕтс	-55 to + 150	°C

Note: 1.The testing condition of the thermal resistance (junction to ambient and junction to lead) is based on 0 lead length between two 10x10cm copper pad heatsinks.

ELECTRICAL CHARACTERISTICS(TA=25°C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITIONS		MIN.	TYP.	MAX.	UNIT
Breakdown voltage	VBR	I R=0.5mA		50	-	-	V
Instantaneous forward voltage	VF		TJ=25°C	- - -	0.28 0.35 0.43	- - 0.49	V
		I F=1A I F=5A	T _J =125°C	-	0.18 0.27	-	V
Reverse current	l R	VR=40V		-	65	-	μА
		VR=50V	TJ=25°C TJ=125°C	-	- 22	320 -	μA mA





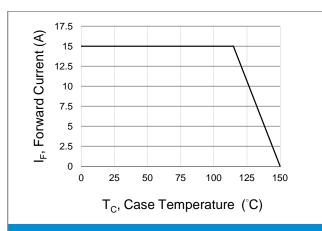


Fig.1 Forward Current Derating Curve

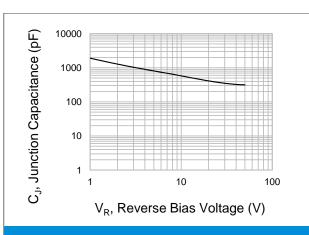


Fig.2 Typical Junction Capacitance

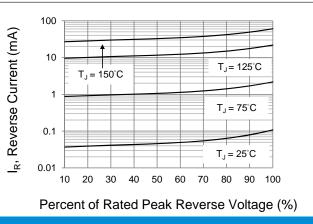


Fig.3 Typical Reverse Characteristics

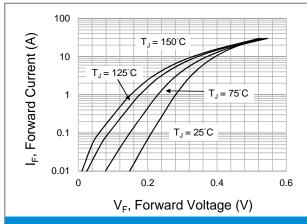


Fig.4 Typical Forward Characteristics





Part No_packing code_Version

SBM1550USS_AY_00001

SBM1550USS_AY_10001

SBM1550USS_B0_00001

SBM1550USS_B0_10001

SBM1550USS_R2_00001

SBM1550USS_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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