



#### **ULTRA LOW VF SCHOTTKY RECTIFIER**

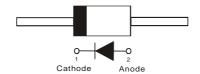
VOLTAGE 45 Volt CURRENT 5 Ampere

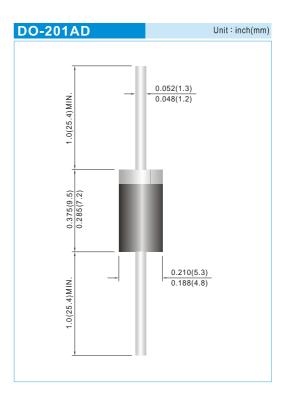
#### **FEATURES**

- 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: DO-201AD Molded Plastic
- Terminals: Axial leads, Solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode
- Weight: 0.04 ounces, 1.142 grams.





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

PARAMETER	SYMBOL	VALUE	UNIT
Maximum repetitive peak reverse voltage	VRRM	45	V
Maximum rms voltage	VRMS	32	V
Maximum dc blocking voltage	VR	45	V
Maximum average forward rectified current	I F(AV)	5	Α
Peak forward surge current : 8.3ms single half sine-wave superimposed on rated load	IFSM	120	А
Typical thermal resistance (Note 1)	Roja Rojl	32 14	°C/W
Operating junction temperature range	TJ	-55 to + 150	°C
Storage temperature range	Тѕтс	-55 to + 150	°C

Note:1.Thermal resistance from junction to ambient and from junction to lead at 0.375" (9.5 mm) lead length, P.C.B. mounted with 10cm x 10cm x 2pcs copper pads.



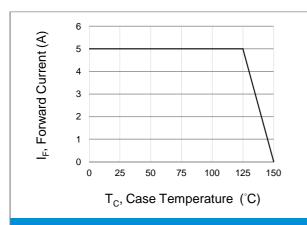


#### ELECTRICAL CHARACTERISTICS(Ta=25°C unless otherwise noted)

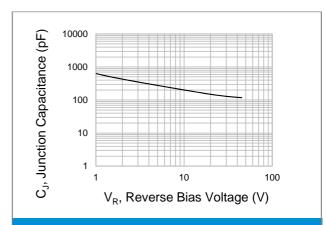
PARAMETER	SYMBOL	TEST CONDITIONS		MIN.	TYP.	MAX.	UNIT
Breakdown voltage	VBR	I R=0.5mA		45	-	-	V
Instantaneous forward voltage	VF	F=1A   F=3A   F=5A   F=1A   F=3A	T <sub>J</sub> =25°C	- - -	0.32 0.38 0.43 0.23 0.32	- - 0.49 - -	V
Reverse current	l R	VR=36V	TJ=25°C	-	25	-	μΑ
		VR=45V	TJ=25°C TJ=125°C	-	- 7	210 -	μA mA







**Fig.1 Forward Current Derating Curve** 



**Fig.2 Typical Junction Capacitance** 

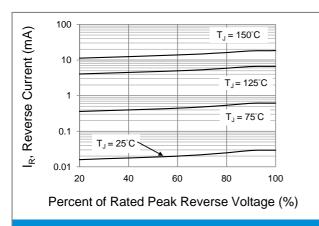


Fig.3 Typical Reverse Characteristics

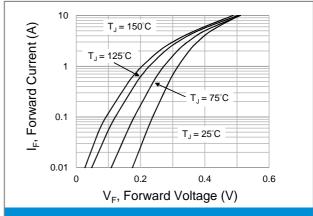
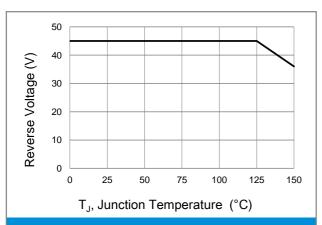


Fig.4 Typical Forward Characteristics



**Fig.5 Operating Temperature Derating Curve** 





### Part No\_packing code\_Version

SBM545LSS\_AY\_00001

SBM545LSS\_AY\_10001

SBM545LSS\_B0\_00001

SBM545LSS\_B0\_10001

SBM545LSS\_R2\_00001

SBM545LSS\_R2\_10001

#### For example:



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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