



SBT1545LSS

ULTRA LOW VF SCHOTTKY RECTIFIER

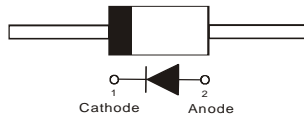
VOLTAGE 45 Volt **CURRENT** 15 Ampere

FEATURES

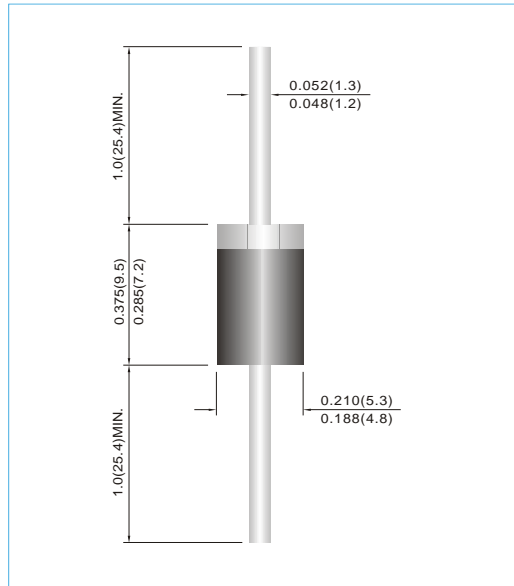
- Ultra low forward voltage drop, low power loss
- High efficiency operation
- Lead free in compliance with EU RoHS 2011/65/EU directive

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



DO-201AD Unit : inch(mm)



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

PARAMETER	SYMBOL	VALUE	UNIT
Maximum repetitive peak reverse voltage	V _{RRM}	45	V
Maximum rms voltage	V _{RMS}	32	V
Maximum dc blocking voltage	V _R	45	V
Maximum average forward rectified current	I _{F(AV)}	15	A
Peak forward surge current : 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	275	A
Typical thermal resistance (Note 1)	R _{θJA} R _{θJL}	30 15	°C/W
Operating junction temperature range	T _J	-55 to + 150	°C
Storage temperature range	T _{STG}	-55 to + 150	°C

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

PARAMETER	SYMBOL	TEST CONDITIONS	MIN.	TYP.	MAX.	UNIT		
Breakdown voltage	V _{BR}	I _R =0.5mA	45	-	-	V		
Instantaneous forward voltage	V _F	I _F =5A I _F =10A I _F =15A T _J =25°C	-	0.35 0.39 0.42	- - 0.46	V		
		I _F =5A I _F =10A T _J =125°C	-	0.24 0.3	- -	V		
		Reverse current	I _R	V _R =36V	-	70	-	μA
		V _R =45V T _J =25°C T _J =125°C		- -	- 50	310 -	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.



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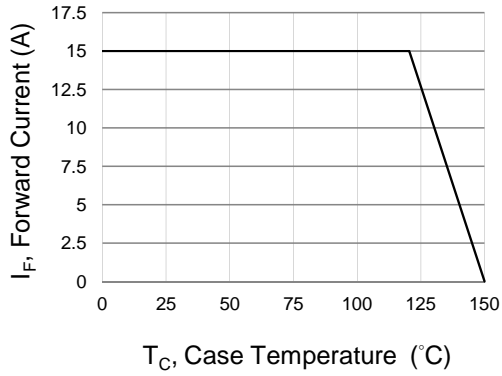


Fig.1 Forward Current Derating Curve

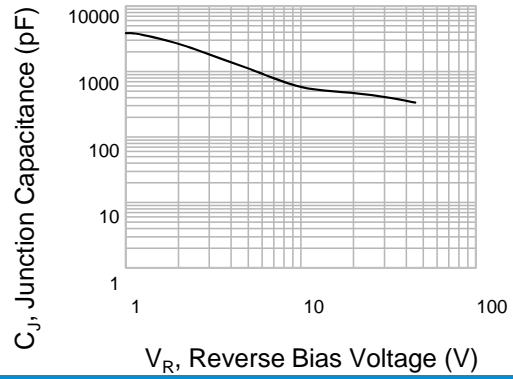


Fig.2 Typical Junction Capacitance

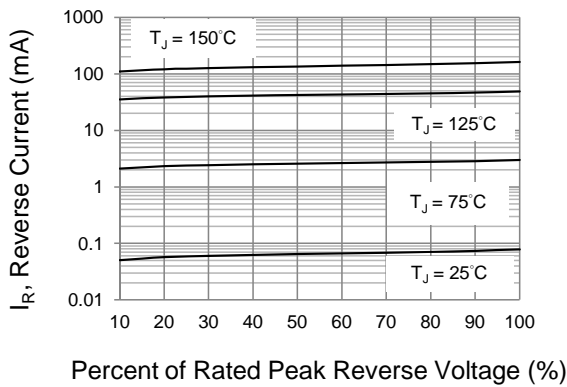


Fig.3 Typical Reverse Characteristics

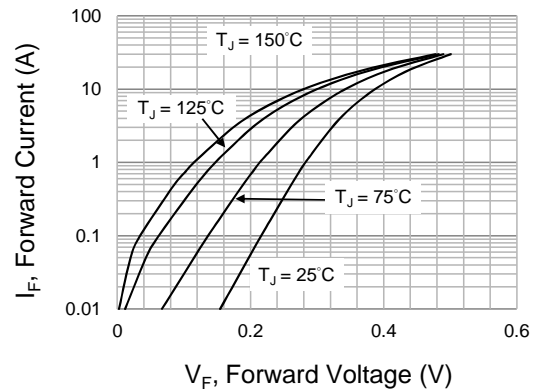


Fig.4 Typical Forward Characteristics

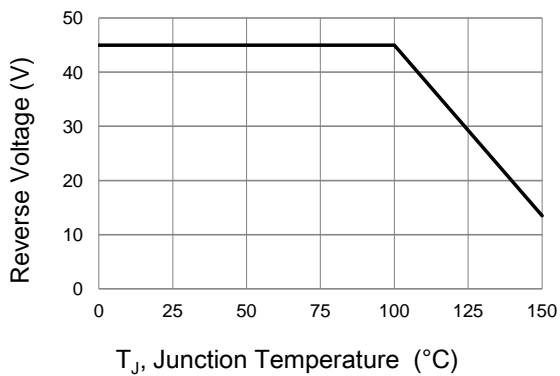


Fig.5 Operating Temperature Derating Curve



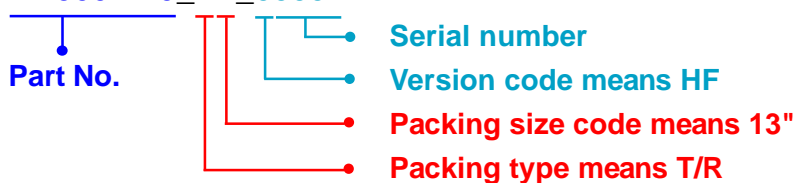
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Part No_packing code_Version

SBT1545LSS_AY_00001
 SBT1545LSS_AY_10001
 SBT1545LSS_B0_00001
 SBT1545LSS_B0_10001
 SBT1545LSS_R2_00001
 SBT1545LSS_R2_10001

For example :

RB500V-40_R2_00001



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)	A	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	B	13"	2			
Tube Packing (T/P)	T	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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