



ULTRA LOW VF SCHOTTKY RECTIFIER

VOLTAGE45 VoltsCURRENT15 Amperes

FEATURES

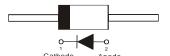
- Ultra low forward voltage drop, low power losses
- · High efficiency operation
- Lead free in comply with EU RoHS 2011/65/EU directives

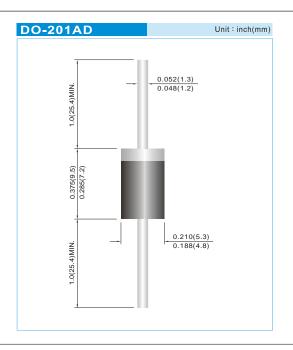
MECHANICAL DATA

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	45	V
Maximum rms voltage		VRMS	32	V
Maximum dc blocking voltage		VR	45	V
Maximum average forward rectified current		I F(AV)	15	А
Peak forward surge current: 8.3ms single half sine-wave superimposed on rated load		IFSM	275	А
Typical thermal resistance	(Note 1)	R⊕ja R⊕jl	30 15	°C/W
Operating junction temperature range		TJ	-55 to + 150	°C
Storage temperature range		Тѕтѕ	-55 to + 150	°C

ELECTRICAL CHARACTERISTICS(TA=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	VF	F=5A F=10A F=15A	TJ=25°C		0.35 0.39 0.42	- - 0.46	V
		I F=5A I F=10A	TJ=125°C	-	0.24 0.3	-	V
Reverse current		VR=36V		-	70	-	μА
	IR	Vr=45V	TJ=25°C TJ=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.





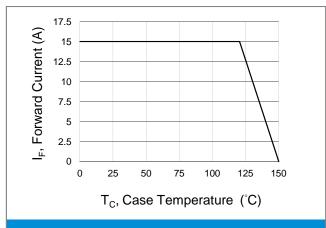


Fig.1 Forward Current Derating Curve

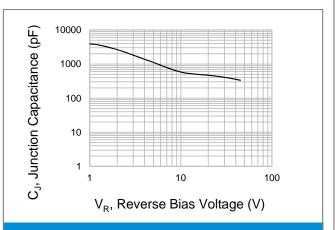


Fig.2 Typical Junction Capacitance

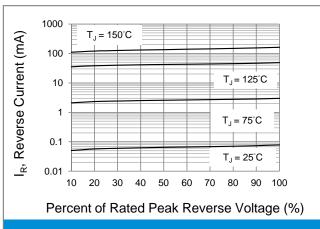


Fig.3 Typical Reverse Characteristics

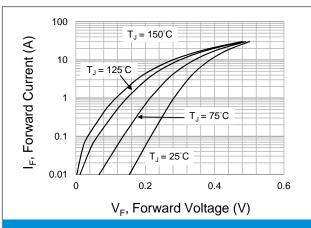


Fig.4 Typical Forward Characteristics





Part No_packing code_Version

SBT1545LSS_AY_00001

SBT1545LSS_AY_10001

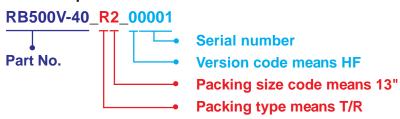
SBT1545LSS_B0_00001

SBT1545LSS_B0_10001

SBT1545LSS_R2_00001

SBT1545LSS_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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