



ULTRA LOW VF SCHOTTKY RECTIFIER

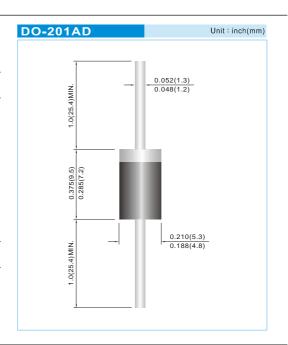
VOLTAGE 40 Volt CURRENT 5 Ampere

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O utilizing Flame Retardant Epoxy Molding Compound.
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications.
- ESD Passed devices : Air mode 15KV, human body mode 8KV
- 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 end
- Weight: 0.0403 ounces, 1.142 grams



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

PARAMETER	SYMBOL	VALUE	UNIT
Maximum repetitive peak reverse voltage	Vrrm	40	V
Maximum average forward rectified current	l F(AV)	5	А
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	İFSM	150	А
Typical thermal resistance (Notes 1) (Notes 2)	R⊕ja R⊕jl	60 25	°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	VBR	I R=1mA	TJ=25°C	40	-	-	٧
Instantaneous forward voltage	VF	I F=1A I F=3A I F=5A I F=1A I F=3A I F=5A	TJ=25°C	- - - -	0.35 0.40 0.44 0.21 0.29 0.35	- 0.49 - - -	V
Reverse current	I R	VR=32V	TJ=25°C	-	30	-	μА
		VR=40V	TJ=25°C TJ=100°C TJ=125°C	-	- - 27	200 35 -	μΑ mA mA

Notes :

- 1. Thermal resistance from junction to ambient 10 mm lead length mounted on PCB with min. pad layout.
- 2. Thermal resistance from junction to lead at 10 mm lead length with both leads attached to infinite heatsinks.





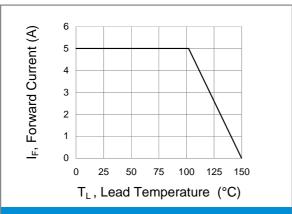


Fig.1 Forward Current Derating Curve

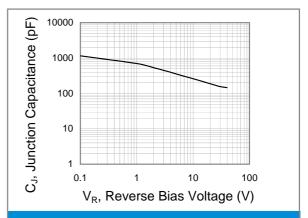


Fig.2 Typical Junction Capacitance

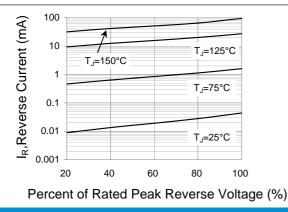


Fig.3 Typical Reverse Characteristics

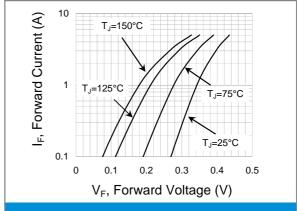


Fig.4 Typical Forward Characteristics

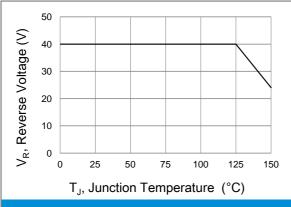


Fig.5 Operating Temperature Derating





Part No_packing code_Version

SB540L_AY_00001

SB540L_AY_10001

SB540L_B0_00001

SB540L_B0_10001

SB540L_R2_00001

SB540L_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	Х			
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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