

SB540L

ULTRA LOW VF SCHOTTKY RECTIFIER

VOLTAGE

5 Ampere

FEATURES

 Plastic package has Underwriters Laboratory Flammability Classification 94V-O utilizing Flame Retardant Epoxy Molding Compound.

40 Volt

- 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	F(AV)	5	A	
Peak forward surge current 8.3ms single half sine-wa on rated load	I FSM	150	А	
Typical thermal resistance	(Notes 1) (Notes 2)	Røja Røjl	60 25	°C/W
Operating junction temperature range		TJ	-55 to + 150	°C
Storage temperature range		Тѕтд	-55 to + 150	°C

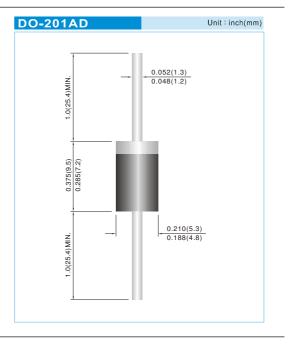
ELECTRICAL CHARACTERISTICS(TA=25°C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITIONS		MIN.	TYP.	MAX.	UNIT
Breakdown voltage	VBR	I R=1mA	TJ=25℃	40	-	-	V
Instantaneous forward voltage	VF	F=1A F=3A F=5A F=1A F=3A F=5A	TJ=25°C TJ=125°C		0.35 0.40 0.44 0.21 0.29 0.35	- - 0.49 - - -	V V
Reverse current	l r	VR=32V VR=40V	TJ=25°C TJ=25°C TJ=100°C TJ=125°C	-	30 - - 27	- 200 35	μA μA mA mA

Notes :

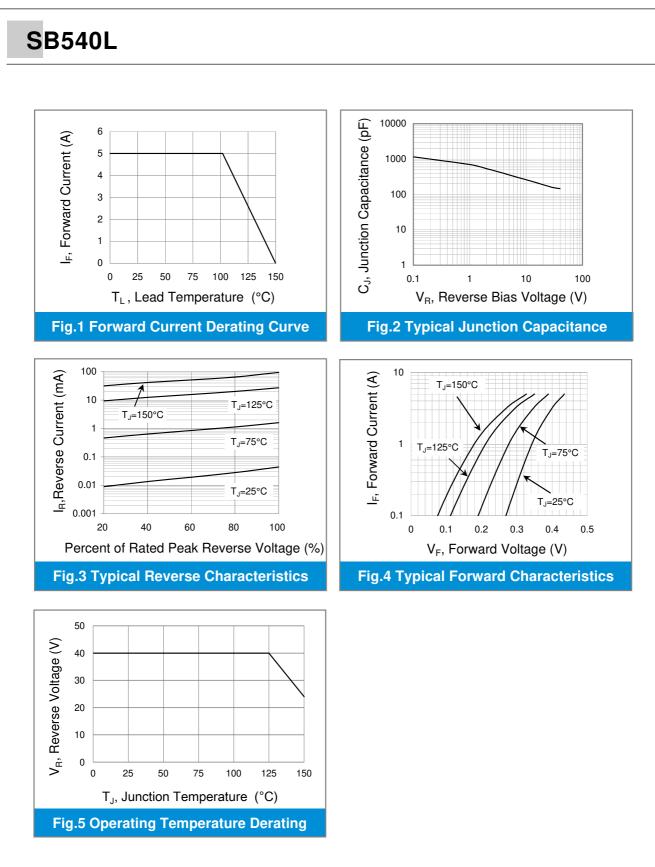
1. Thermal resistance from junction to ambient 10 mm lead length mounted on PCB with min. pad layout.

2. Thermal resistance from junction to lead at 10 mm lead length with both leads attached to infinite heatsinks.

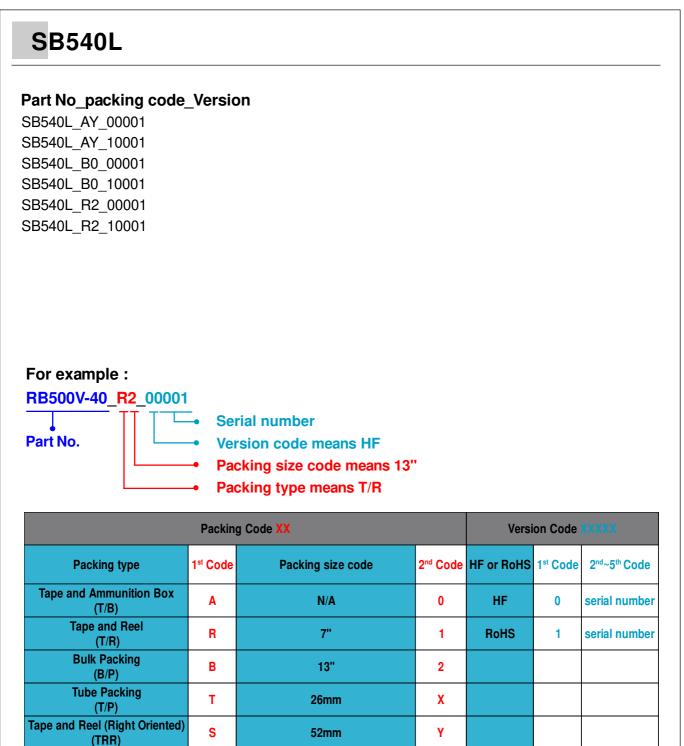












PANASERT T/B CATHODE UP

(PBCU) PANASERT T/B CATHODE DOWN

(PBCD)

U

D

Tape and Reel (Left Oriented)

(TRL)

FORMING

L

F





SB540L

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