SBT20150LCT

ULTRA LOW VF SCHOTTKY RECTIFIER

CURRENT

20 Ampere

VOLTAGE

FEATURES

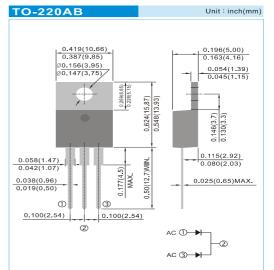
• Ultra low forward voltage drop, low power loss

150 Volt

- · High efficiency operation
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

- Case : TO-220AB, Plastic
- Terminals : Solderable per MIL-STD-750, Method 2026
- Weight: 0.067 ounces, 1.89 grams.



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

PARAMETER		SYMBOL	VALUE	UNIT
Maximum repetitive peak reverse voltage		Vrrm	150	V
Maximum rms voltage		Vrms	105	V
Maximum dc blocking voltage		VR	150	V
Maximum average forward rectified current	per device per diode	I F(AV)	20 10	А
Peak forward surge current : 8.3ms single half sine-wave superimposed on rated load		I FSM	150	А
Typical thermal resistance	(Note 1)	Rejc	2	°C/W
Operating junction temperature range		TJ	-55 to + 150	°C
Storage temperature range		Тѕтс	-55 to + 150	°C

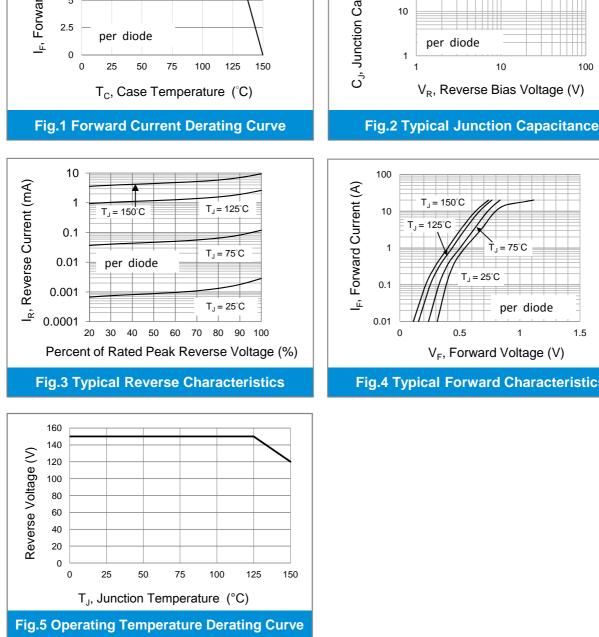
Note : 1. Device mounted on a infinite heatsink.

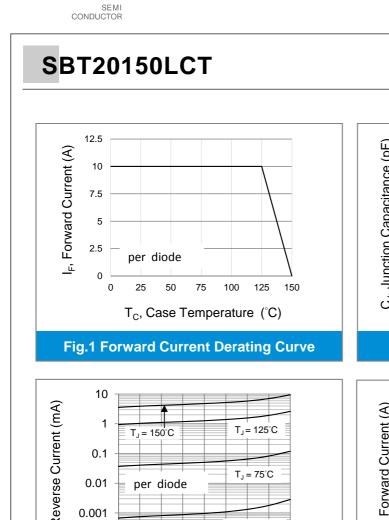
ELECTRICAL CHARACTERISTICS(TA=25°C unless otherwise noted)

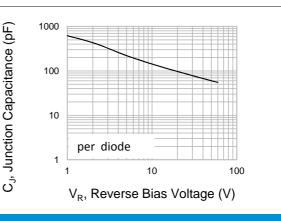
PARAMETER	SYMBOL	TEST CONDITIONS		MIN.	TYP.	MAX.	UNIT
Breakdown voltage per diode	Vbr	I R=0.5mA	TJ=25°C	150	-	-	V
Instantaneous forward voltage per diode	VF	I F=1A I F=5A I F=10A	TJ=25℃	- - -	0.54 0.72 0.8	- - 0.85	v
		I	TJ=125℃	-	0.44 0.59	-	V
Reverse current per diode	1 -	Vr=105V	TJ=25℃	-	1.5	-	μΑ
	l r	VR=150V	TJ=25°C TJ=125°C	-	- 3	40 -	μA mA











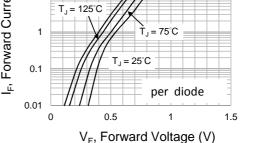
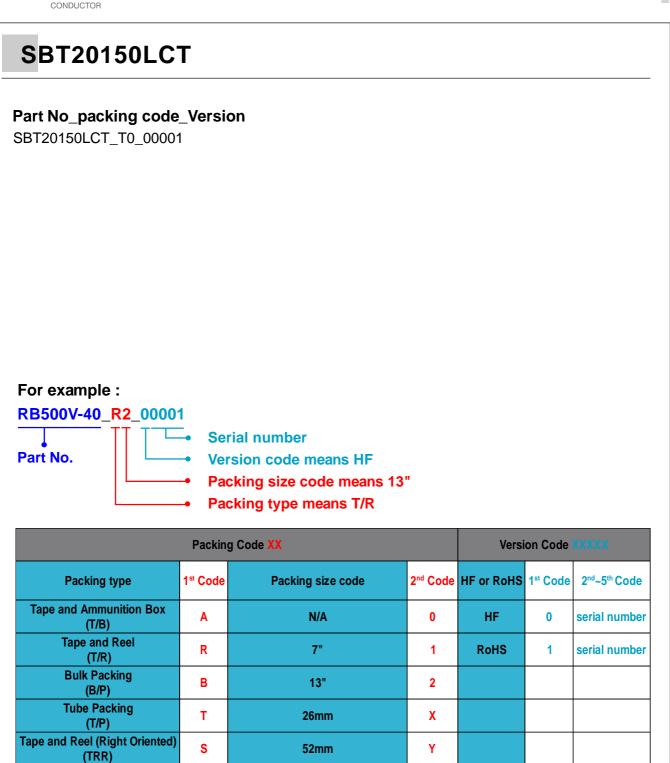


Fig.4 Typical Forward Characteristics







PANASERT T/B CATHODE UP

(PBCU) PANASERT T/B CATHODE DOWN

(PBCD)

U

D

Tape and Reel (Left Oriented)

(TRL)

FORMING

L

F





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