

LOW VF SCHOTTKY RECTIFIER 45 Volt

VOLTAGE

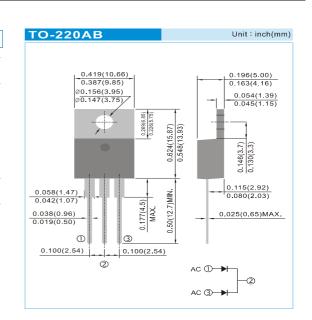
CURRENT 40 Ampere

FEATURES

- · Low forward voltage drop, low power loss
- · 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			VALUE	UNIT
Maximum repetitive peak reverse voltage		Vrrm	45	V
Maximum average forward rectified current	per device per diode	I F(AV)	40 20	А
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	per diode	I FSM	250	А
Typical Thermal Resistance per diode ⁽³⁾		Røjc	1.9	°C/W
Operating junction temperature range		TJ	-55 to + 150	°C
Storage temperature range		Тѕтс	-55 to + 150	°C

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

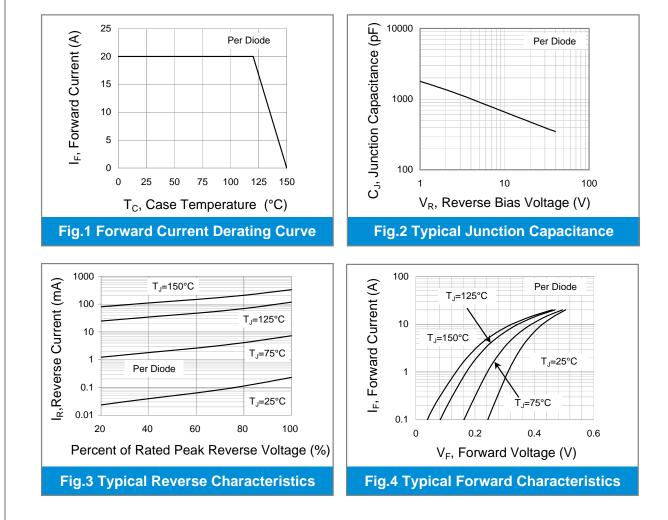
PARAMETER	SYMBOL	TEST CONDITIONS		MIN.	TYP.	MAX.	UNIT
Breakdown voltage	Vbr	I R=1mA		45	-	-	V
Instantaneous forward voltage per diode (1)	VF	F=5A F=10A F=20A F=5A F=10A F=20A	TJ=25°C TJ=125°C		0.38 0.43 0.51 0.27 0.35 0.48	- - 0.53 - -	V V
Reverse current per diode (2)	l r	VR=36V		-	112	-	μA
		Vr=45V	TJ=25°C TJ=125°C	-	- 120	500 -	μA mA

Note.1.Pulse test : 300µs pulse width, 1% duty cycle

2.Pulse test : pulse width \leq 40ms

3.Mounted on infinite heatsink

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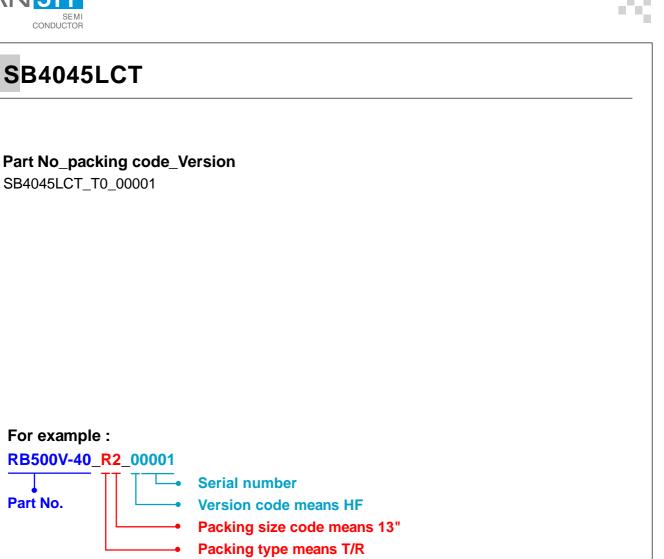




SB4045LCT







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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