

SB2045LCT

LOW VF SCHOTTKY RECTIFIER

45 Volts

VOLTAGE

CURRENT 20 Amperes

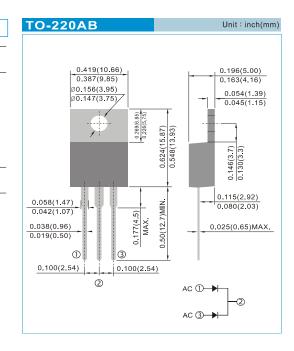
FEATURES

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

MECHANICAL DATA

Case : TO-220AB, Plastic

Terminals : Solderable per MIL-STD-750, Method 2026 Weight: 0.0655 ounces, 1.859 grams



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

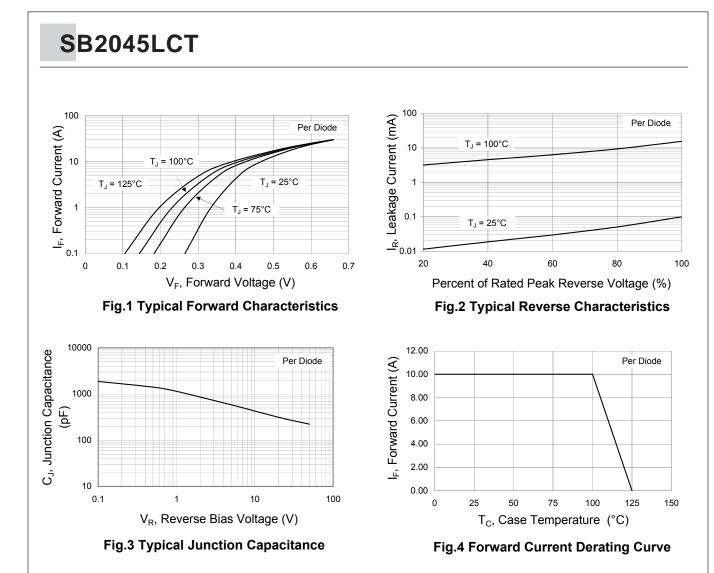
PARAMETER	SYMBOL	VALUE	UNIT	
Maximum repetitive peak reverse voltage	Vrrm	45	V	
Maximum average forward rectified current	per device per diode	l f(AV)	20 10	А
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load per diode			145	A
Typical thermal resistance		Røjc	2.5	°C / W
Operating junction		τJ	-55 to + 125	°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		50	-	-	V
Instantaneous forward voltage per diode (1)	Vf	IF=5A IF=10A	TJ=25℃	-	0.42 0.46	0.46 0.52	V
Reverse current per diode (2)	l r	VR=45V	TJ=25°C TJ=100°C	-	100 -	500 100	μA mA

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

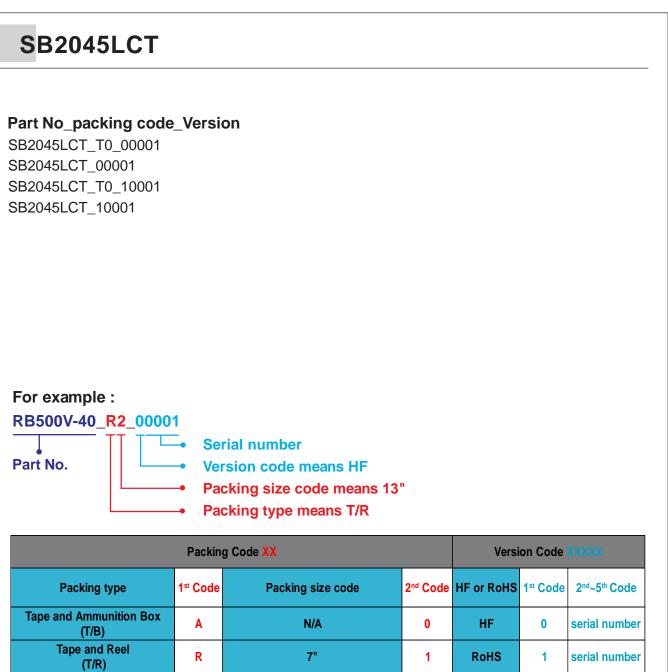
2.Pulse test : pulse width \leq 40ms











13"

26mm

52mm

PANASERT T/B CATHODE UP

(PBCU) PANASERT T/B CATHODE DOWN

(PBCD)

2

Х

Υ

U

D

Bulk Packing

(B/P) Tube Packing

(T/P) Tape and Reel (Right Oriented)

(TRR) Tape and Reel (Left Oriented)

(TRL)

FORMING

В

Т

S

L

F





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