



# SB3045LCT

## LOW VF SCHOTTKY RECTIFIER

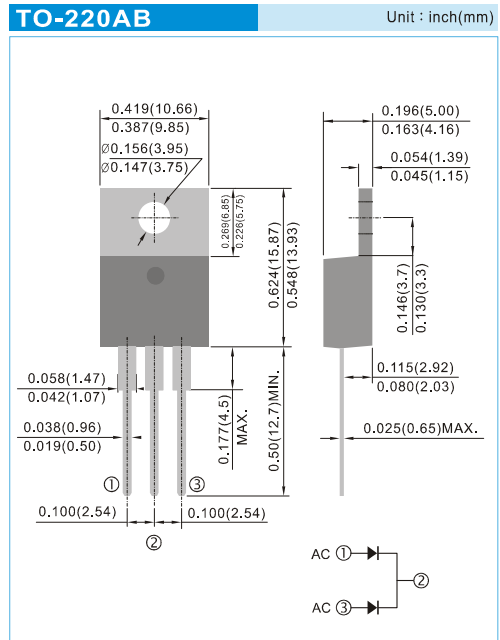
**VOLTAGE** 45 Volt **CURRENT** 30 Ampere

### 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(T<sub>A</sub>=25°C unless otherwise noted)

PARAMETER	SYMBOL	VALUE	UNIT
Maximum repetitive peak reverse voltage	V <sub>RRM</sub>	45	V
Maximum average forward rectified current	I <sub>F(AV)</sub>	30 15	A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	I <sub>FSM</sub>	250	A
Typical thermal resistance per diode	R <sub>θJC</sub>	2.2	°C/W
Operating junction temperature range	T <sub>J</sub>	-55 to + 125	°C
Storage temperature range	T <sub>STG</sub>	-55 to + 150	°C

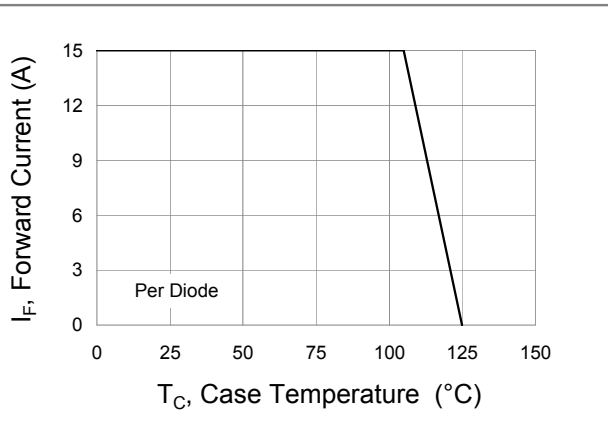
### ELECTRICAL CHARACTERISTICS(T<sub>A</sub>=25°C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN.	TYP.	MAX.	UNIT
Breakdown voltage	V <sub>BR</sub>	I <sub>R</sub> =1mA	45	-	-	V
Instantaneous forward voltage per diode	V <sub>F</sub>	I <sub>F</sub> =5A T <sub>J</sub> =25°C	-	0.39	-	V
		I <sub>F</sub> =7.5A T <sub>J</sub> =25°C	-	0.42	-	V
		I <sub>F</sub> =15A T <sub>J</sub> =25°C	-	0.48	0.53	V
		I <sub>F</sub> =5A T <sub>J</sub> =125°C	-	0.27	-	V
Reverse current per diode	I <sub>R</sub>	V <sub>R</sub> =36V T <sub>A</sub> =25°C	-	150	400	μA
		V <sub>R</sub> =45V T <sub>A</sub> =100°C	-	40	100	mA
		V <sub>R</sub> =45V T <sub>A</sub> =25°C	-	150	400	μA

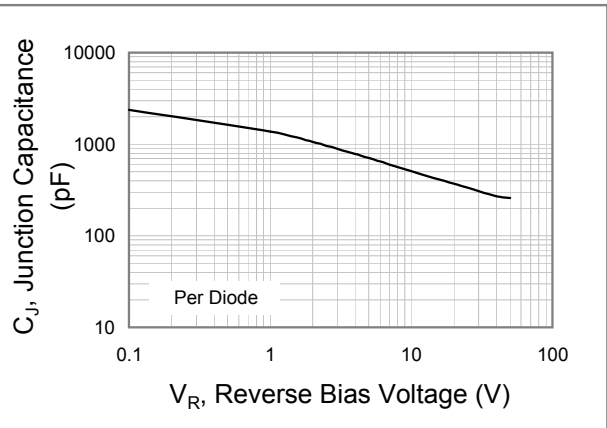
Note : 1. Infinite heatsink.



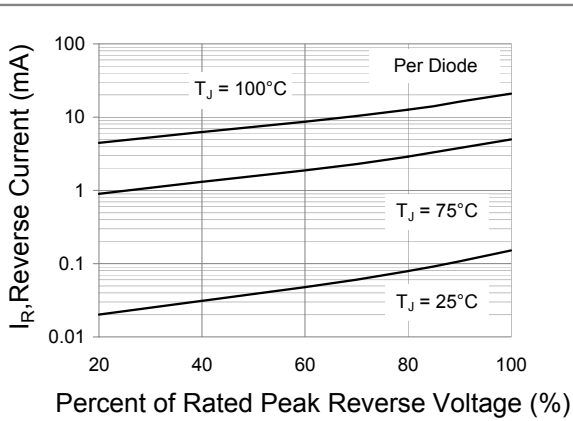
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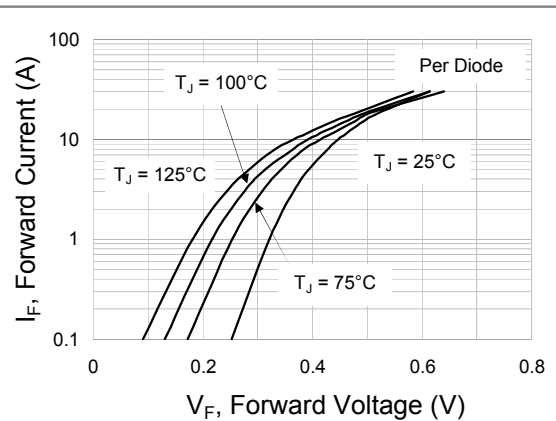
**Fig.1 Forward Current Derating Curve**



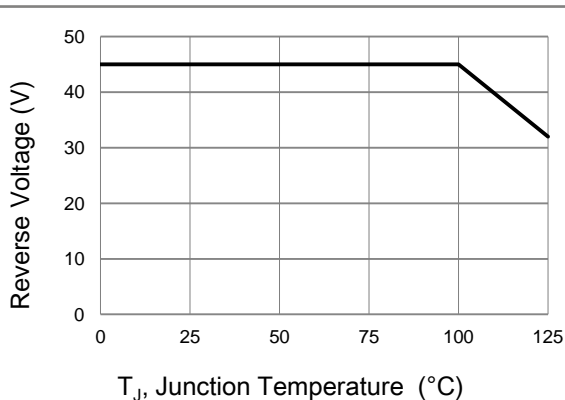
**Fig.2 Typical Junction Capacitance**



**Fig.3 Typical Reverse Characteristics**



**Fig.4 Typical Forward Characteristics**



**Fig.5 Operating Temperature Derating Curve**



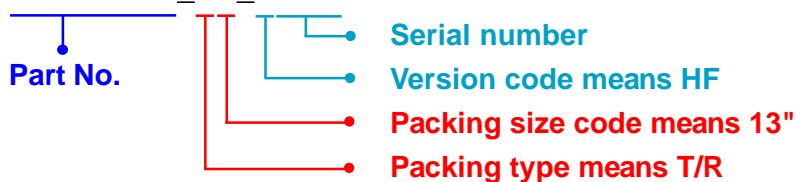
# SB3045LCT

Part No\_packing code\_Version

SB3045LCT\_T0\_00001

For example :

**RB500V-40** **R2** **00001**



Packing Code <b>XX</b>				Version Code <b>XXXXX</b>		
Packing type	1 <sup>st</sup> Code	Packing size code	2 <sup>nd</sup> Code	HF or RoHS	1 <sup>st</sup> Code	2 <sup>nd</sup> ~5 <sup>th</sup> Code
Tape and Ammunition Box (T/B)	A	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	B	13"	2			
Tube Packing (T/P)	T	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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