



LOW VF SCHOTTKY RECTIFIER

VOLTAGE 45 Volt CURRENT 30 Ampere

FEATURES

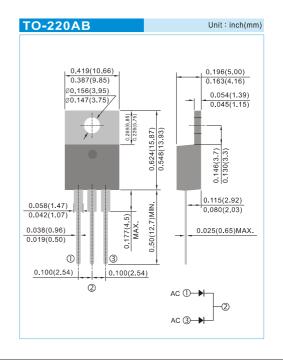
- Low forward voltage drop, low power loss
- · High efficiency operation
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

• Case: TO-220AB, Plastic

• Terminals : Solderable per MIL-STD-750, Method 2026

• Weight: 0.067 ounces, 1.89 grams



MAXIMUM RATINGS(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)	30 15	Α
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	per diode	IFSM	250	А
Typical thermal resistance per diode	(Note 1)	Rejc	2.2	°C/W
Operating junction temperature range		TJ	-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		45	-	-	V
Instantaneous forward voltage per diode	VF	F=5A F=7.5A F=15A F=5A F=7.5A	TJ=25°C	- - -	0.39 0.42 0.48 0.27 0.31	- - 0.53 -	V
		I F=15A		-	0.41	0.45	
Reverse current per diode	l R	VR=36V VR=45V	Ta=25°C	-	100	400	μA μA
		V K-40 V	Ta=100°C	-	40	100	mA

Note: 1. Infinite heatsink.

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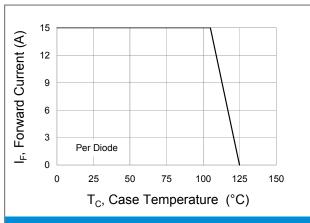


Fig.1 Forward Current Derating Curve

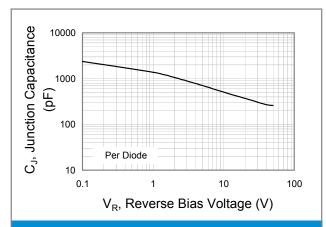


Fig.2 Typical Junction Capacitance

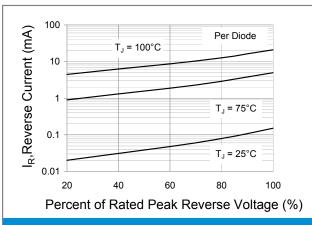


Fig.3 Typical Reverse Characteristics

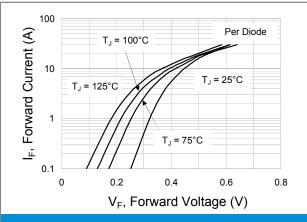


Fig.4 Typical Forward Characteristics

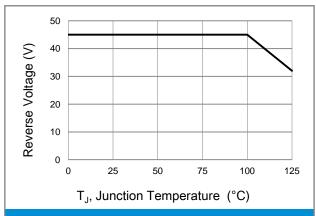


Fig.5 Operating Temperature Derating Curve





Part No_packing code_Version

SB3045LCT_T0_00001

For example:



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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