



#### **DUAL HIGH-VOLTAGE SCHOTTKY RECTIFIER**

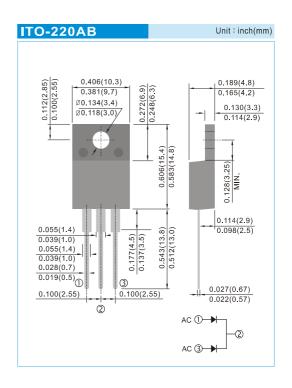
VOLTAGE 45 Volt CURRENT 20 Ampere

#### **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: ITO-220AB, Plastic
- Terminals : Solderable per MIL-STD-750, Method 2026
- Weight: 0.056 ounces, 1.6 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	l F(AV)	20 10	А	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load per diode	per diode	IFSМ	145	Α
Typical thermal resistance		Rejc	4.5	°C / W
Operating junction		Тл	-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	I F=5A I F=10A	T <sub>J</sub> =25°C	-	0.42 0.46	0.46 0.52	V
Reverse current per diode (2)	IR	VR=45V	TJ=25°C TJ=100°C	-	100 -	500 100	μA mA

Note.1.Pulse test :  $300\mu s$  pulse width, 1% duty cycle

2.Pulse test : pulse width  $\leq$  40ms





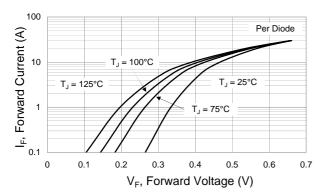


Fig.1 Typical Forward Characteristics

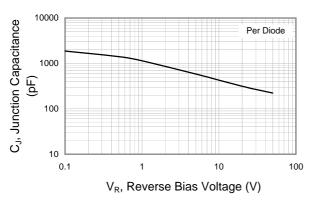
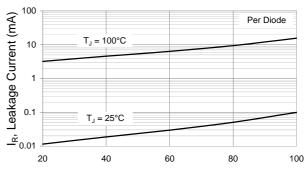


Fig.3 Typical Junction Capacitance



Percent of Rated Peak Reverse Voltage (%)
Fig.2 Typical Reverse Characteristics

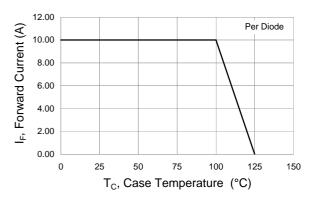


Fig.4 Forward Current Derating Curve

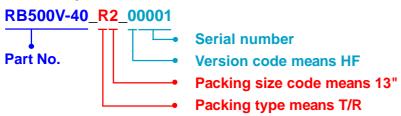




## Part No\_packing code\_Version

SB2045LFCT\_T0\_00001

## For example:



Packing Code XX			Version Code XXXXX			
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)	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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