



SBM2045VFCT

UITRA LOW VF SCHOTTKY RECTIFIER

VOLTAGE

CURRENT 20 Ampere

FEATURES

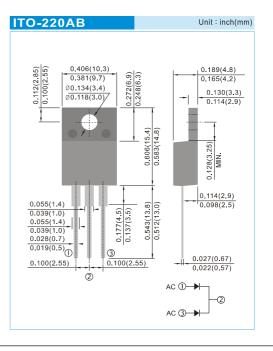
• Ultra low forward voltage drop, low power loss

45 Volt

- 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	per diode per device	I F(AV)	20 10	А
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	per diode	I fsm	280	A
Typical junction capacitance (VR=4V, f=1MHz)		CJ	860	pF
Typical thermal resistance per diode	(Note 1)	Røjc	15	°C/W
Operating junction temperature range		τJ	-55 to + 150	°C
Storage temperature range		Тѕтс	-55 to + 150	°C

Note : 1. Mounted on infinite heatsink.

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

PARAMETER	SYMBOL	TEST CONDITIONS		MIN.	TYP.	MAX.	UNIT
Breakdown voltage per diode	Vbr	I R=0.5mA		45	-	-	v
Instantaneous forward voltage per diode	VF	I	TJ=25°C	- - -	0.28 0.36 0.41	- - 0.45	V
		I	TJ=125℃	- - -	0.18 0.28 0.36	- - -	v
Reverse current per diode		Vr=36V		-	100	-	μΑ
	IR	Vr=45V	TJ=25°C TJ=125°C	-	- 35	320	μA mA





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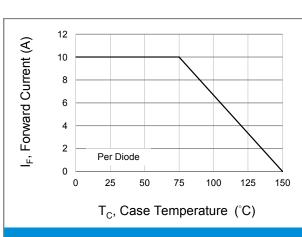


Fig.1 Forward Current Derating Curve

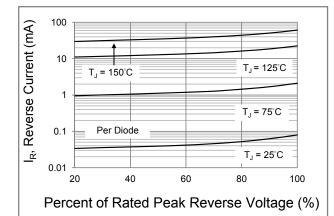
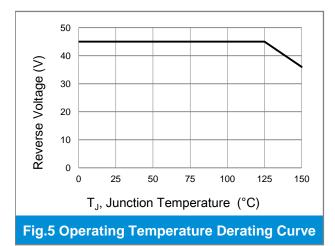


Fig.3 Typical Reverse Characteristics



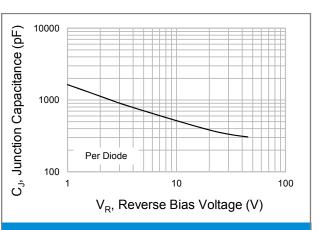


Fig.2 Typical Junction Capacitance

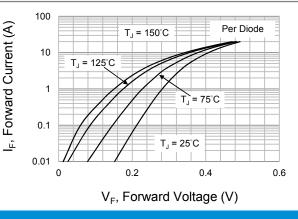
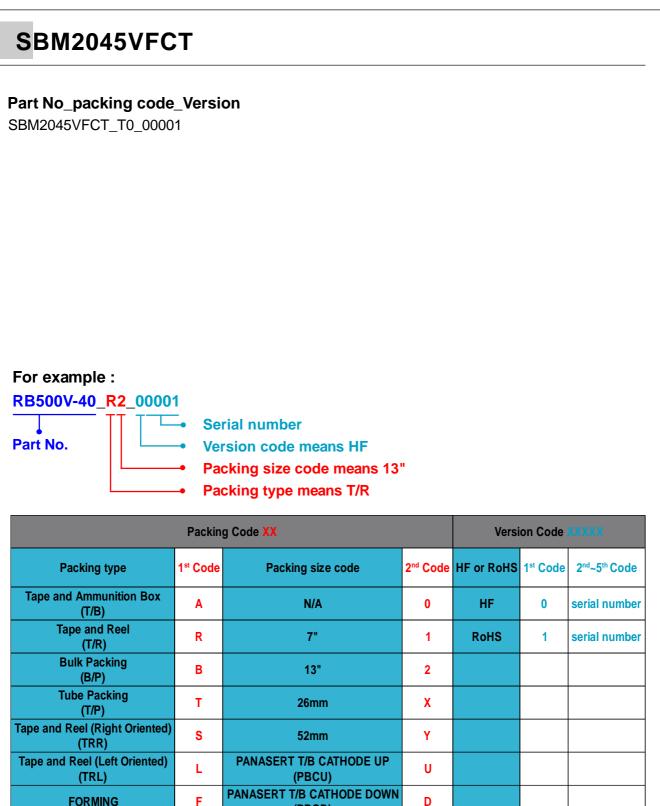


Fig.4 Typical Forward Characteristics





(PBCD)





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