



ULTRA LOW VF SCHOTTKY RECTIFIER

VOLTAGE 60 Volt CURRENT 30 Ampere

FEATURES

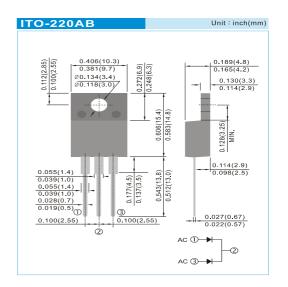
- · Ultra low forward voltage drop, low power loss
- · High efficiency operation
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

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	60	V
Maximum rms voltage		VRMS	42	V
Maximum dc blocking voltage		VR	60	V
Maximum average forward rectified current per diode per device		l f(AV)	I F(AV) 15 30	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load per diode		IFSM	250	А
Typical junction capacitance (V _R =4V, f=1MHz)		CJ	650	pF
Typical thermal resistance per diode (Note 1)		Rөлс	5.5	°C/W
Operating junction temperature range		TJ	-55 to + 150	°C
Storage temperature range		Тѕтс	-55 to + 150	°C

Note: 1. Device mounted on a infinite heatsink, then measured the center of the marking side.

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

PARAMETER	SYMBOL	TEST CC	NDITIONS	MIN.	TYP.	MAX.	UNIT
Breakdown voltage per diode	VBR	I _R =0.5mA		60	-	-	V
Instantaneous forward voltage per diode	VF	F=3A F=5A F=15A	TJ=25°C	- - -	0.36 0.40 0.55	- - 0.59	V
		F=3A F=5A	T _J =125°C	-	0.29 0.35	- -	V
Reverse current per diode	l R	V _R =42V		-	30	-	μΑ
		VR=60V	TJ=25°C TJ=125°C	-	- 16	220 -	μA mA





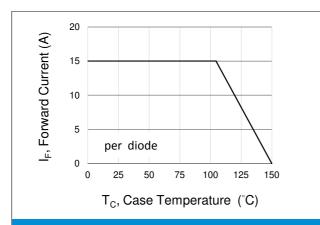


Fig.1 Forward Current Derating Curve

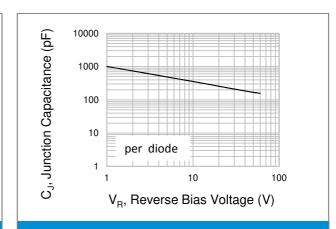


Fig.2 Typical Junction Capacitance

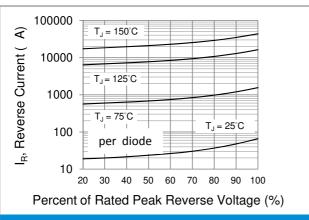


Fig.3 Typical Reverse Characteristics

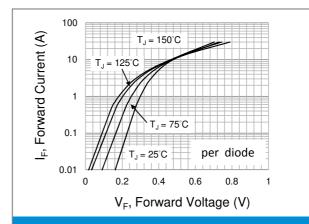


Fig.4 Typical Forward Characteristics





Part No_packing code_Version

SBM3060VFCT_T0_00001

For example:



Packing Code XX			Version Code XXXXXX			
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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