

SBM1060VCT

ULTRA LOW VF SCHOTTKY RECTIFIER

VOLTAGE

10 Ampere

FEATURES

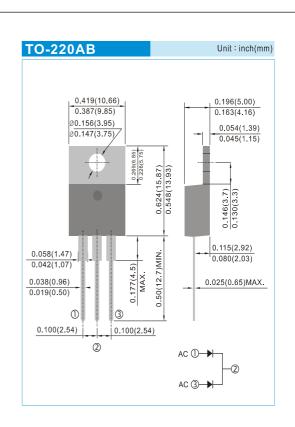
· Ultra Low forward voltage drop, low power loss

60 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 : 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	60	V
Maximum rms voltage		VRMS	42	V
Maximum dc blocking voltage		VR	60	V
Maximum average forward rectified current	per device per diode	I F(AV)	10 5	А
Peak forward surge current : 8.3ms single half sine-wave superimposed on rated load	per diode	I FSM	120	A
Typical junction capacitance (VR=4V, f=1MHz)		CJ	300	рF
Typical thermal resistance per diode	(Note 1)	Røjc	2	°C/W
Operating junction temperature range		TJ	-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		60	-	-	V
Instantaneous forward voltage per diode	VF	F=1A F=3A F=5A F=1A F=3A	TJ=25°C TJ=125°C	- - - -	0.32 0.4 0.46 0.24 0.36	- - 0.52 - -	v v
Reverse current per diode	Ιĸ	V _{R=} 48V		-	40	-	А
		VR=60V	TJ=25°C TJ=125°C	-	- 12	220 -	A mA

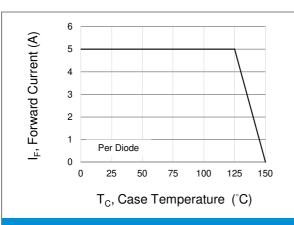
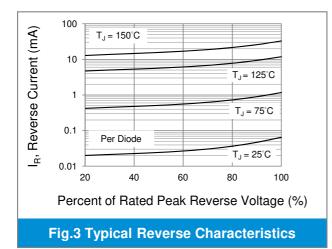


Fig.1 Forward Current Derating Curve



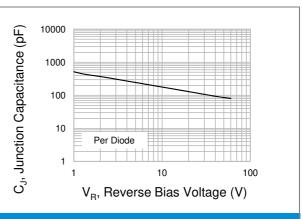
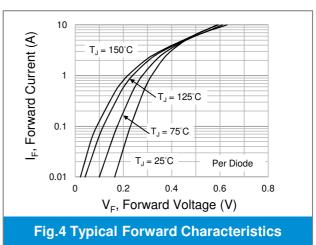


Fig.2 Typical Junction Capacitance



November 1,2016-REV.01





SBM1060VCT

Part No_packing code_Version

SBM1060VCT_T0_00001

For example :

RB500V-40_R2_00001

Part No.

- Serial number

Version code means HF

- Packing size code means 13"
- Packing type means T/R

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~5th 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)	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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