



### LOW VF SCHOTTKY RECTIFIER

VOLTAGE 60 Volts CURRENT 20 Amperes

#### **FEATURES**

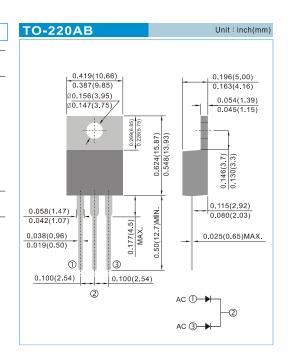
- Low forward voltage drop, low power losses
- High efficiency operation
- Lead free in comply with EU RoHS 2011/65/EU directives

#### **MECHANICAL DATA**

Case: TO-220AB, Plastic

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

Weight: 0.0655 ounces, 1.859 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)	20 10	А
Peak forward surge current : 8.3ms single half sine-wave superimposed on rated load	per diode	IFSM	150	Α
Typical junction capacitance (VR=4V, f=1MHz)		Сı	480	pF
Typical thermal resistance per diode	(Note 1)	R⊛JC	1.5	°C/W
Operating junction temperature range		Tu	-55 to + 150	°C
Storage temperature range		Тѕтѕ	-55 to + 150	°C

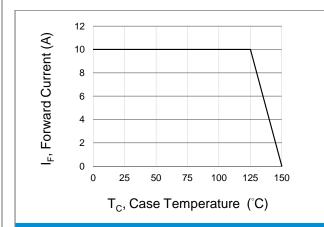
Note: 1. Mounted on infinite heatsink.





#### 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		-	<b>V</b>
Instantaneous forward voltage per diode	VF	I =3A I =5A I =10A	TJ=25°C	- - -	0.37 0.41 0.51	- - 0.57	V
		I = 3A I = 5A I = 10A	T <sub>J</sub> =125°C	- - -	0.31 0.38 0.53	- - -	V
Reverse current per diode	l R	VR=42V		-	45	-	μΑ
		VR=60V	TJ=25°C TJ=125°C	-	95 20	220 -	μA mA



**Fig.1 Forward Current Derating Curve** 

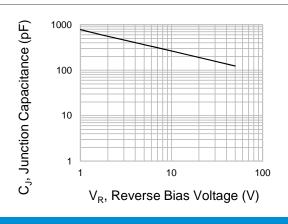


Fig.2 Typical Junction Capacitance

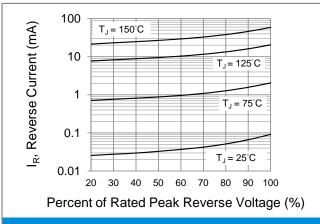


Fig.3 Typical Reverse Characteristics

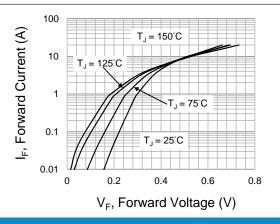


Fig.4 Typical Forward Characteristics





### Part No\_packing code\_Version

SBM2060VCT\_T0\_00001 SBM2060VCT\_T0\_10001

### 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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