



# SBM3060UCT

## EXTREME LOW VF SCHOTTKY RECTIFIER

**VOLTAGE** 60 Volt **CURRENT** 30 Ampere

### FEATURES

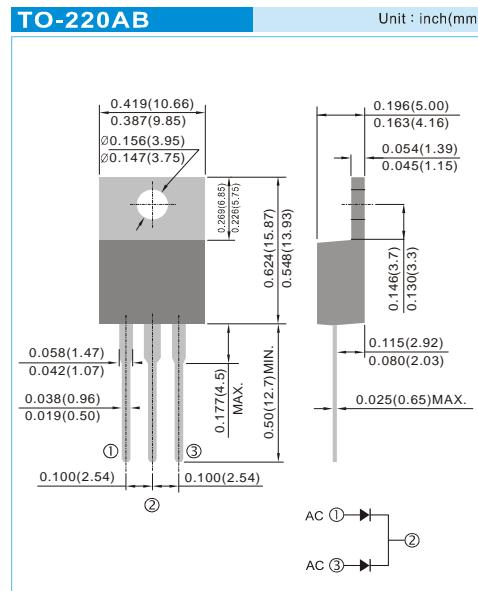
- Extreme low forward voltage drop, low power loss
- High efficiency operation
- Lead free in compliance with EU RoHS 2011/65/EU directive

### MECHANICAL DATA

Case : TO-220AB, Plastic

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

Weight: 0.067 ounces, 1.89 grams.



### MAXIMUM RATINGS(T<sub>A</sub>=25°C unless otherwise noted)

PARAMETER	SYMBOL	VALUE	UNIT
Maximum repetitive peak reverse voltage	V <sub>RRM</sub>	60	V
Maximum average forward rectified current per diode per device	I <sub>F(AV)</sub>	15 30	A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	I <sub>FSM</sub>	250	A
Typical thermal resistance per diode (Note 1)	R <sub>θJC</sub>	2	°C/W
Operating junction temperature range	T <sub>J</sub>	-55 to + 150	°C
Storage temperature range	T <sub>STG</sub>	-55 to + 150	°C

Note : 1. Mounted on infinite heatsink.

### ELECTRICAL CHARACTERISTICS(T<sub>A</sub>=25°C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN.	TYP.	MAX.	UNIT
Breakdown voltage per diode	V <sub>BR</sub>	I <sub>R</sub> =1mA	60	-	-	V
Instantaneous forward voltage per diode	V <sub>F</sub>	I <sub>F</sub> =3A I <sub>F</sub> =7.5A I <sub>F</sub> =15A T <sub>J</sub> =25°C	-	0.33	-	V
			-	0.41	-	
			-	0.51	0.56	
	I <sub>R</sub>	I <sub>F</sub> =3A I <sub>F</sub> =7.5A I <sub>F</sub> =15A T <sub>J</sub> =125°C	-	0.25	-	V
			-	0.37	-	
			-	0.51	-	
Reverse current per diode	I <sub>R</sub>	V <sub>R</sub> =48V	-	100	-	µA
		V <sub>R</sub> =60V T <sub>J</sub> =25°C T <sub>J</sub> =125°C	-	0.15 26	0.5 -	mA mA



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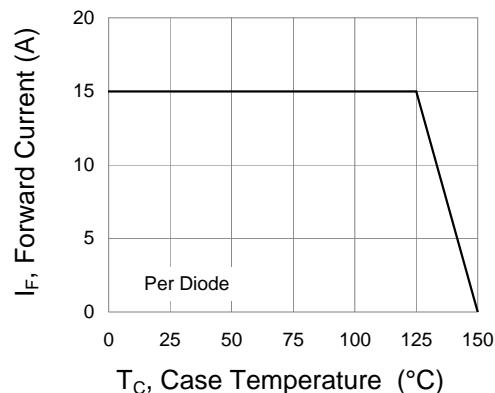


Fig.1 Forward Current Derating Curve

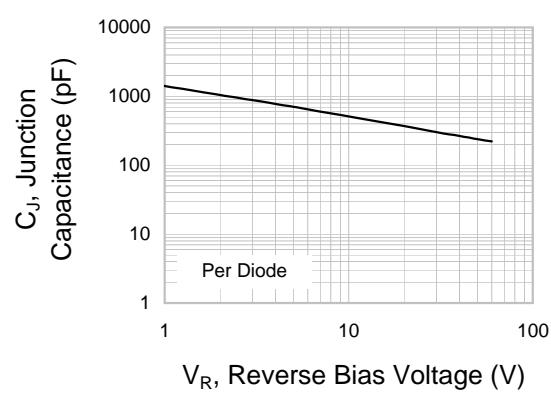


Fig.2 Typical Junction Capacitance

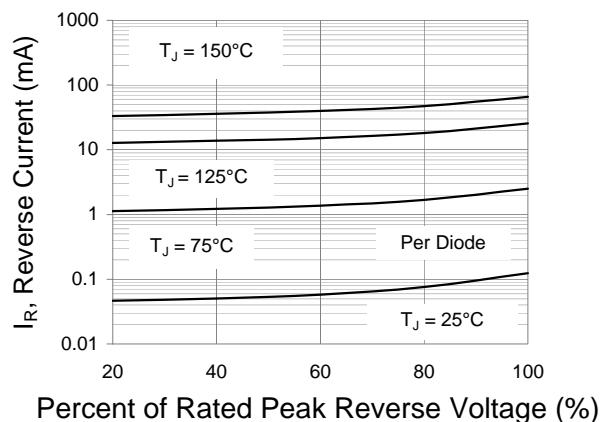


Fig.3 Typical Reverse Characteristics

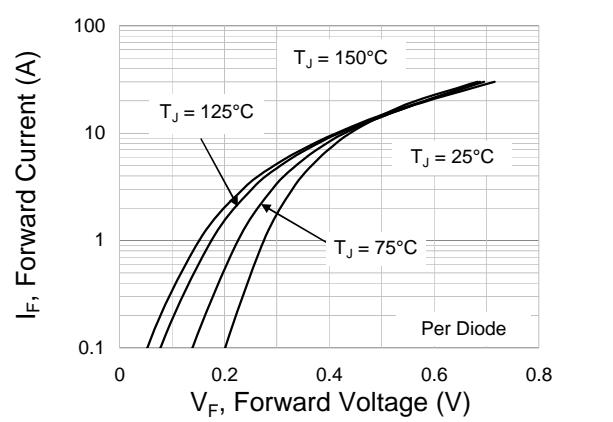


Fig.4 Typical Forward Characteristics



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## Part No\_packing code\_Version

SBM3060UCT\_T0\_00001

SBM3060UCT\_T0\_10001

For example :

**RB500V-40\_R2\_00001**



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)	A	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	B	13"	2			
Tube Packing (T/P)	T	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 (PBKD)	D			



## **SBM3060UCT**

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