

SBM3060VCT

ULTRA LOW VF SCHOTTKY RECTIFIER

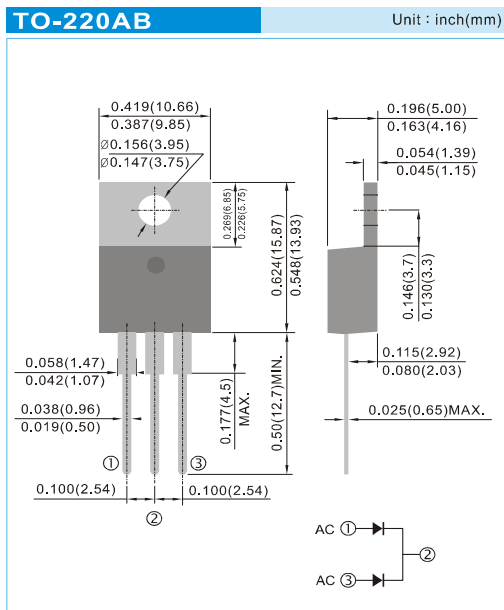
VOLTAGE 60 Volt **CURRENT** 30 Ampere

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 : TO-220AB, Plastic
- Terminals : Solderable per MIL-STD-750, Method 2026
- Weight : 0.067 ounces, 1.89 grams



MAXIMUM RATINGS($T_A=25^{\circ}\text{C}$ unless otherwise noted)

PARAMETER	SYMBOL	VALUE	UNIT
Maximum repetitive peak reverse voltage	V_{RRM}	60	V
Maximum average forward rectified current	$I_{F(AV)}$	15 30	A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	250	A
Typical junction capacitance ($V_R=4V$, $f=1\text{MHz}$)	C_J	650	pF
Typical thermal resistance per diode (Note 1)	$R_{\theta JC}$	2	$^{\circ}\text{C/W}$
Operating junction temperature range	T_J	-55 to + 150	$^{\circ}\text{C}$
Storage temperature range	T_{STG}	-55 to + 150	$^{\circ}\text{C}$

Note : 1. Mounted on infinite heatsink.

ELECTRICAL CHARACTERISTICS($T_A=25^{\circ}\text{C}$ unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN.	TYP.	MAX.	UNIT
Breakdown voltage per diode	V_{BR}	$I_R=0.5\text{mA}$	60	-	-	V
Instantaneous forward voltage per diode	V_F	$I_F=3A$ $I_F=5A$ $I_F=15A$ $T_J=25^{\circ}\text{C}$	-	0.36 0.40 0.55	-	V
		$I_F=3A$ $I_F=5A$ $I_F=15A$ $T_J=125^{\circ}\text{C}$	-	0.29 0.35 -	-	V
		$V_R=42V$	-	30	-	μA
		$V_R=60V$ $T_J=25^{\circ}\text{C}$ $T_J=125^{\circ}\text{C}$	-	- 16	220 -	μA mA

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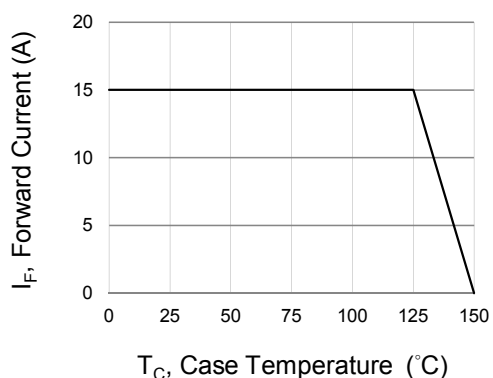


Fig.1 Forward Current Derating Curve

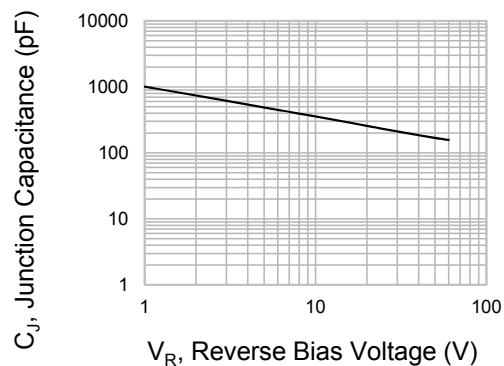


Fig.2 Typical Junction Capacitance

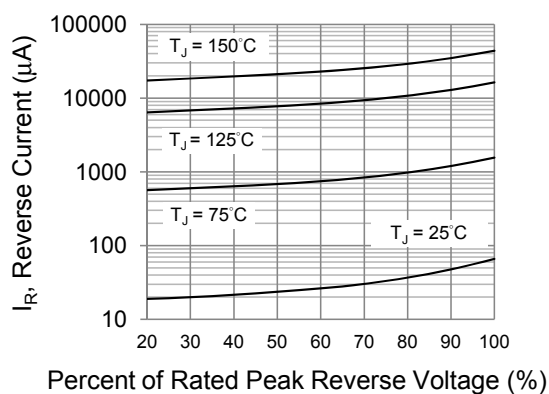


Fig.3 Typical Reverse Characteristics

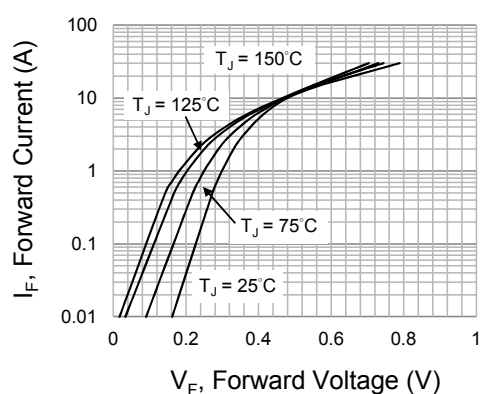


Fig.4 Typical Forward Characteristics

Product and Packing Information

Part No.	Package Type	Packing Type	Marking
SBM3060VCT	TO-220AB	50pcs / Tube	SBM3060VCT

SBM3060VCT

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