

SBM2060VFCT

ULTRA LOW VF SCHOTTKY RECTIFIER

VOLTAGE 60 Volt **CURRENT** 20 Ampere

FEATURES

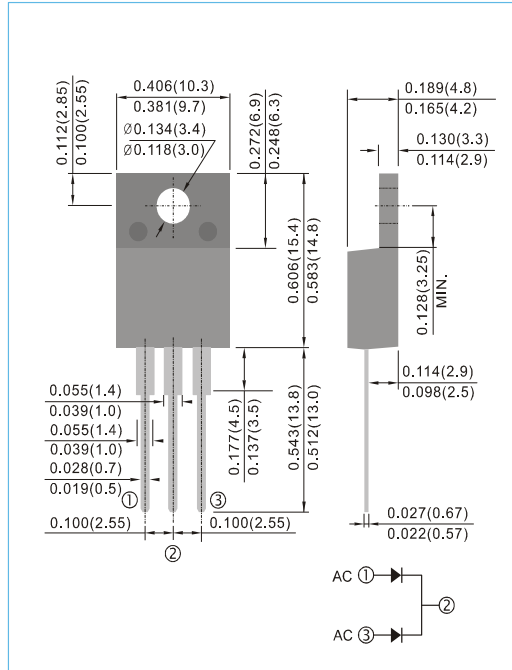
- Ultra low forward voltage drop, low power loss
- High efficiency operation
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

- Case : ITO-220AB, Plastic
- Terminals : Solderable per MIL-STD-750, Method 2026
- Weight : 0.056 ounces, 1.6 grams.

ITO-220AB

Unit : inch(mm)



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 rms voltage	V_{RMS}	42	V
Maximum dc blocking voltage	V_R	60	V
Maximum average forward rectified current	$I_{F(AV)}$	20 10	A
Peak forward surge current : 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	150	A
Typical junction capacitance ($V_R=4V$, $f=1\text{MHz}$)	C_J	480	pF
Typical thermal resistance per diode (Note 1)	$R_{\theta JC}$	15	$^{\circ}\text{C/W}$
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.

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

PARAMETER	SYMBOL	TEST CONDITIONS	MIN.	TYP.	MAX.	UNIT
Breakdown voltage per diode	V _{BR}	I _R =0.5mA	60	-	-	V
Instantaneous forward voltage per diode	V _F	I _F =3A	-	0.37	-	V
		I _F =5A	-	0.41	-	
		I _F =10A	-	0.51	0.57	
		I _F =3A	-	0.31	-	V
Reverse current per diode	I _R	I _F =5A	-	0.38	-	
		I _F =10A	-	-	-	
		V _R =42V	-	45	-	μA
		V _R =60V	-	95	220	μA
		T _J =25°C	-	20	-	mA
		T _J =125°C	-			

PRODUCT AND PACKING INFORMATION

Part No.	Package Type	Packing Type	Marking
SBM2060VFCT	ITO-220AB	50pcs / Tube	SBM2060VFCT

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