SB3060LCT

DUAL HIGH-VOLTAGE SCHOTTKY RECTIFIER

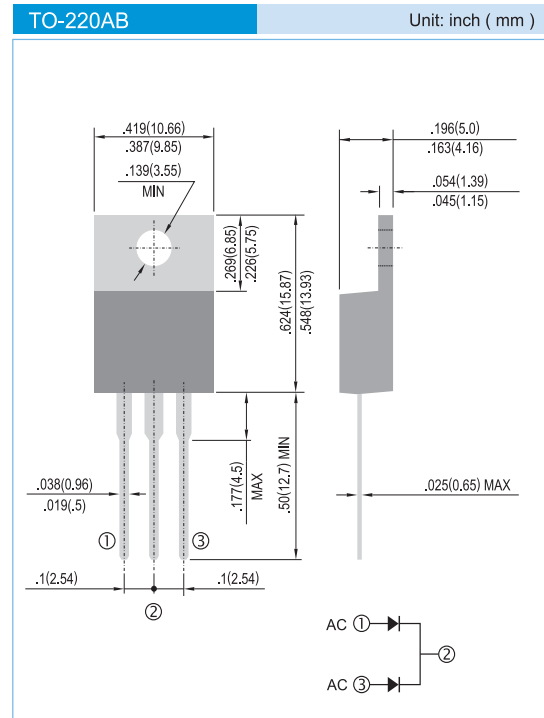| VOLTAGE	60 Volts	CURRENT	30 Ampers

FEATURES

- Low forward voltage drop, low power losses
- High efficiency operation
- In compliance with EU RoHS 2002/95/EC directives

MECHANICAL DATA

Case : TO-220AB, Plastic

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

Weight: 0.0655 ounces, 1.859 grams

TO-220AB   Unit: inch (mm)

MAXIMUM RATINGS(T_A=25°C unless otherwise noted)

PARAMETER		SYMBOL	VALUE	UNIT
Maximum repetitive peak reverse voltage		V_{RRM}	60	V
Maximum average forward rectified current (Fig.1)	per device per diode	$I_{F(AV)}$	30 15	A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load per diode	per diode	I_{FSM}	250	A
Non-repetitive avalanche energy at T_J=25°C,L=60mH per diode		E_{AS}	450	mJ
Typical Thermal Resistance	per diode	$R_{\Theta JC}$	2.5	°C/W
Operating junction and storage temperature range		T_J,T_{STG}	-55 to + 150	°C

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

PARAMETER	SYMBOL	TEST CONDITIONS		MIN.	TYP.	MAX.	UNIT
Breakdown voltage	V_{BR}	I_R=1mA		60	-	-	V
Instantaneous forward voltage per diode [1]	V_F	I_F=15A I_F=30A	T_A=25°C	- -	- -	0.60 0.75	V
		I_F=15A I_F=30A	T_A=125°C	- -	0.48 0.64	0.56 0.70	V
Reverse current per diode [1]	I_R	V_R=60V	T_A=25°C T_A=125°C	- -	- -	480 150	μA mA

Note.1 Pulse test : tp=380μs, δ<2%

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RATINGS AND CHARACTERISTICS CURVES (T$_A$=25°C unless otherwise noted)
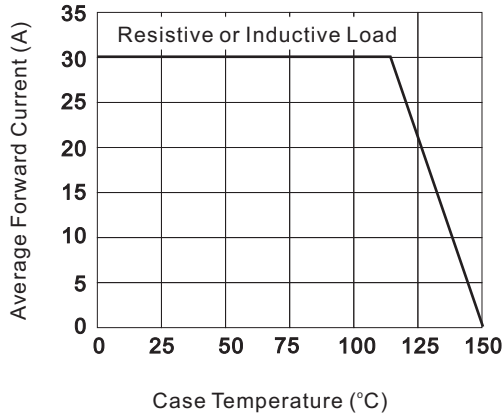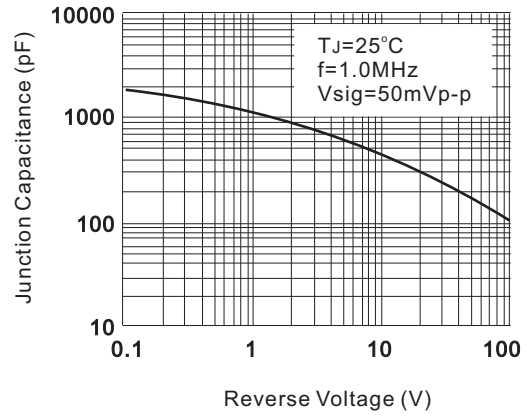

Figure 1. Forward Current Derating Curve

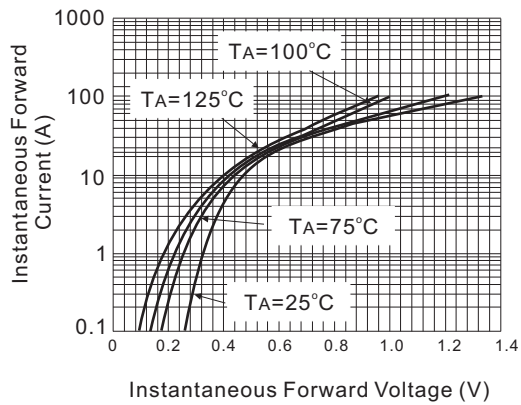Figure 2. Typical Junction Capacitance

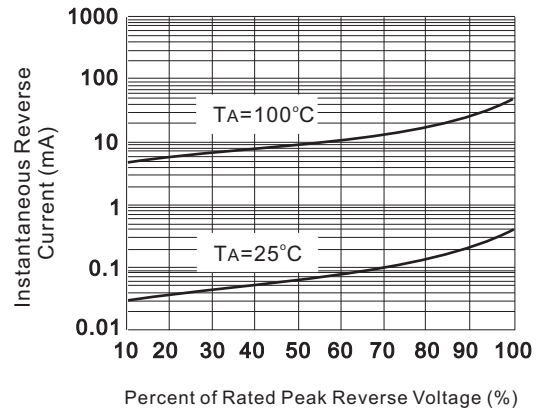Figure 3. Typical Instantaneous Forward Characteristics Per Diode

Figure 4. Typical Reverse Characteristics Per Diode

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