

**SCHOTTKY BARRIER RECTIFIERS**

REVERSE VOLTAGE - **60** Volts  
FORWARD CURRENT - **20** Amperes

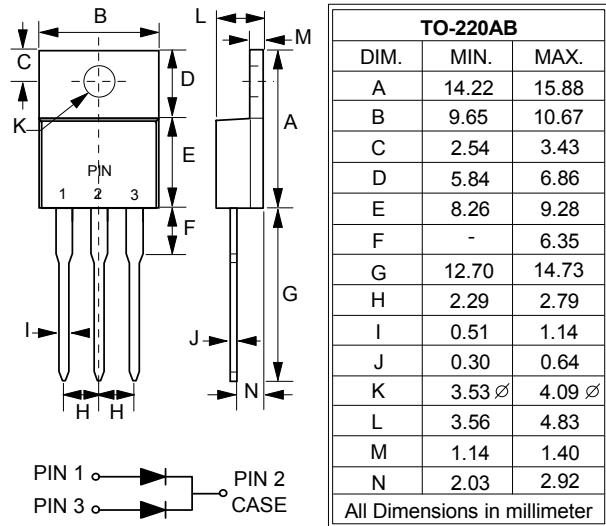
**FEATURES**

- Metal of silicon rectifier, majority carrier conductor
- Guard ring for transient protection
- Low power loss, high efficiency
- High current capability, low VF
- High surge capacity
- Plastic package has UL flammability classification 94V-0
- For use in low voltage, high frequency inverters, free whelling, and polarity protection applications

**MECHANICAL DATA**

- Case : TO-220AB molded plastic
- Polarity : As marked on the body
- Weight : 0.08 ounces, 2.24 grams
- Mounting position : Any
- Max. mounting torque = 0.5 N.m (5.1 Kgf.cm)

**TO-220AB**



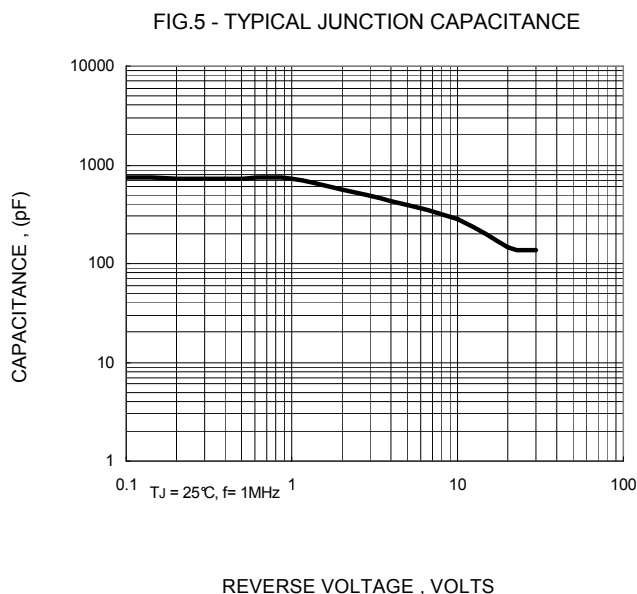
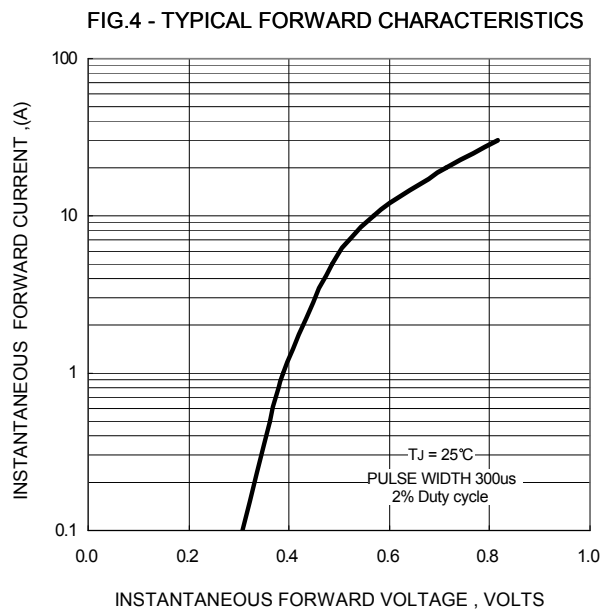
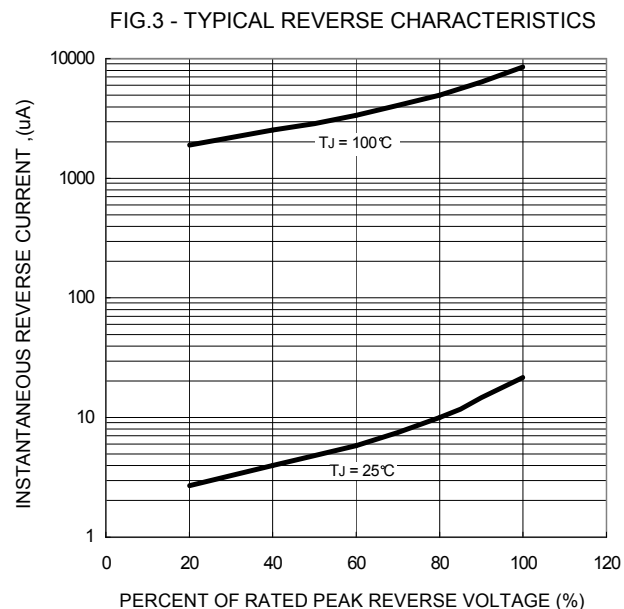
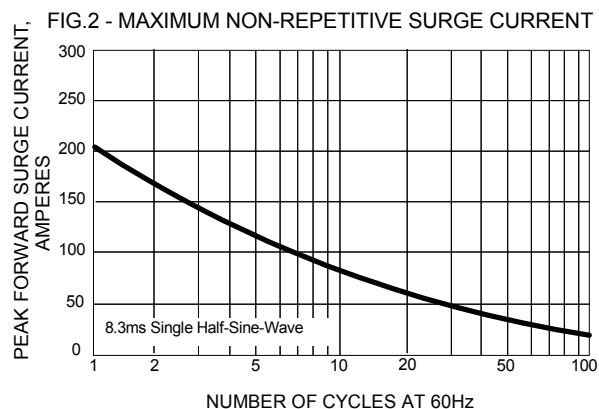
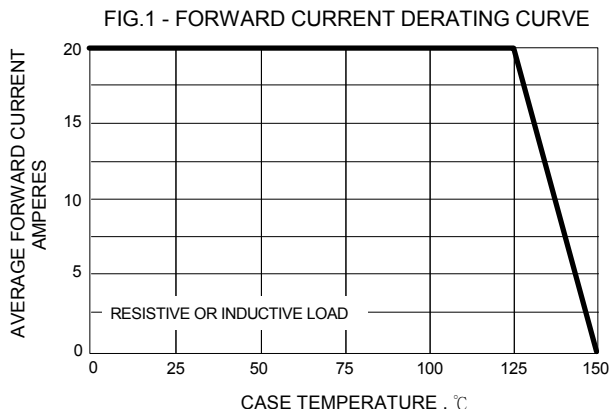
**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Ratings at 25°C ambient temperature unless otherwise specified.

CHARACTERISTICS	SYMBOL	SBL20V60CT	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	60	V
Maximum RMS Voltage	VRMS	42	V
Maximum DC Blocking Voltage	VDC	60	V
Maximum Average Forward Rectified Current (See Fig.1) @Tc=125°C	I(AV)	20	A
Peak Forward Surge Current 8.3ms single half sine-wave @Tj=25°C	IFSM	200	A
Maximum Forward Voltage at 10A DC (Note 1) @Tj=25°C @Tj=125°C	VF	0.60 0.55	V
Maximum DC Reverse Current at Rated DC Blocking Voltage @Tj=25°C @Tj=100°C	IR	0.1 20	mA
Typical Junction Capacitance per element (Note 2)	CJ	430	pF
Typical Thermal Resistance (Note 3)	RθJC	2.0	°C/W
Operating Temperature Range	TJ	-55 to +150	°C
Storage Temperature Range	TSTG	-55 to +150	°C

- NOTES : 1. 300us Pulse Width, 2% Duty Cycle.  
2. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.  
3. Device mounted on 75mm x 75mm x 1.6mm Cu plate.

REV. 3, Oct-2010, KTHC54



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