

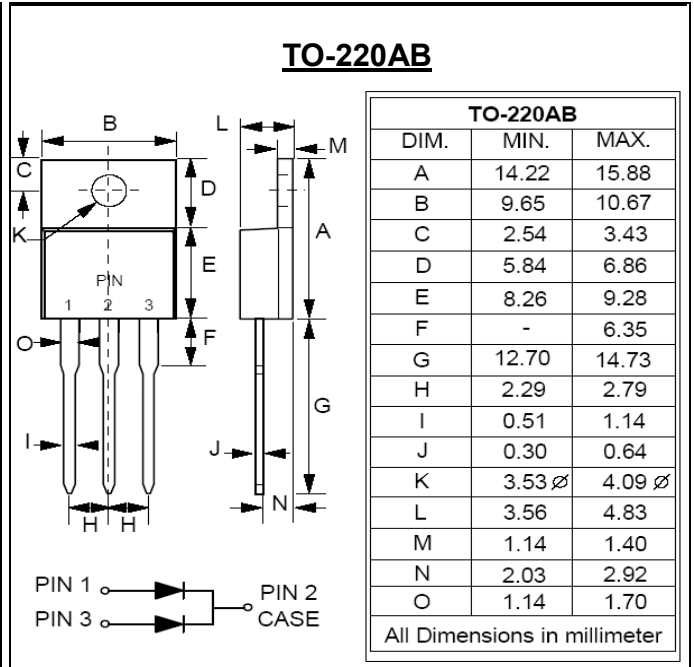
SCHOTTKY BARRIER RECTIFIER	REVERSE VOLTAGE - 100 Volts FORWARD CURRENT - 30 Amperes
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FEATURES

- Low power loss, high efficiency
- Ultra low forward voltage drop
- High surge capability
- Plastic package has UL flammability classification 94V-0
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications
- IEC 61000-4-2, level 4 (ESD). > 15KV (air)

MECHANICAL DATA

- Case : TO-220AB mold plastic
- Polarity : As marked on the body
- Weight : 0.067 ounces, 1.9 grams
- Mounting position : Any
- Max. mounting torque = 0.5 N.m (5.1 Kgf-cm)



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS
Ratings at 25°C ambient temperature unless otherwise specified.

PARAMETER	SYMBOL	SBL30V100CT	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	100	V
Maximum RMS Voltage	V_{RMS}	70	V
Maximum DC Blocking Voltage	V_{DC}	100	V
Average Rectified Output Current @TC=130°C	$I_{(AV)}$	30	A
Peak Forward Surge Current 8.3ms single half sine-wave @Tj=25°C	I_{FSM}	250	A
Maximum Forward Voltage (Note 1) IF=15A@Tj=25°C IF=15A@Tj=125°C	V_F	0.79 0.67	V
Maximum DC Reverse Current at Rated DC Blocking Voltage Tj=25°C Tj=125°C	I_R	0.2 30	mA
Typical Junction Capacitance per element (Note 2)	C_J	500	pF
Typical Thermal Resistance (Note 3)	$R_{\theta JC}$	1.7	°C/W
Operating junction temperature range	T_J	-55 to +175	°C
Storage temperature range	T_{STG}	-55 to +175	°C

Notes :

- (1) 300us Pulse Width, 2% Duty Cycle.
- (2) Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
- (3) Thermal Resistance Junction to Case. Device mounted on 100 x 100 x 2 mm copper plate.

REV. 2, Jul-2012, KTHC93

FIG.1- FORWARD CURRENT DERATING CURVE

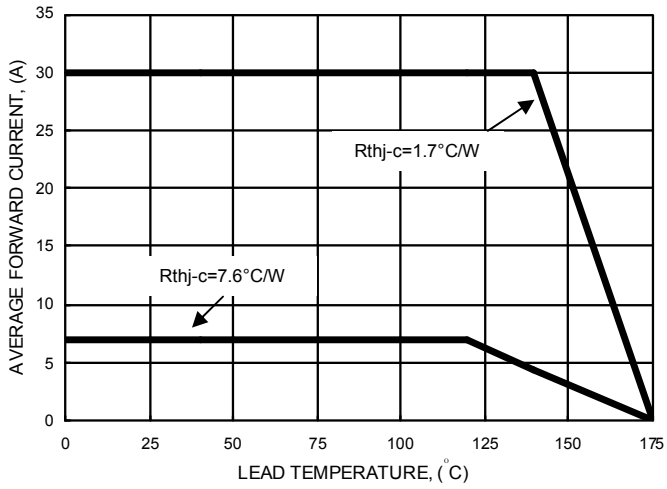


FIG.2- MAXIMUM NON-REPETITIVE SURGE CURRENT

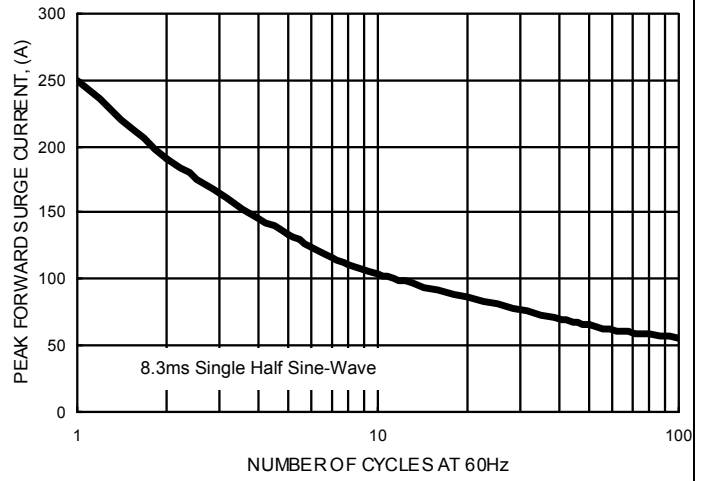


FIG.3- TYPICAL REVERSE CHARACTERISTICS

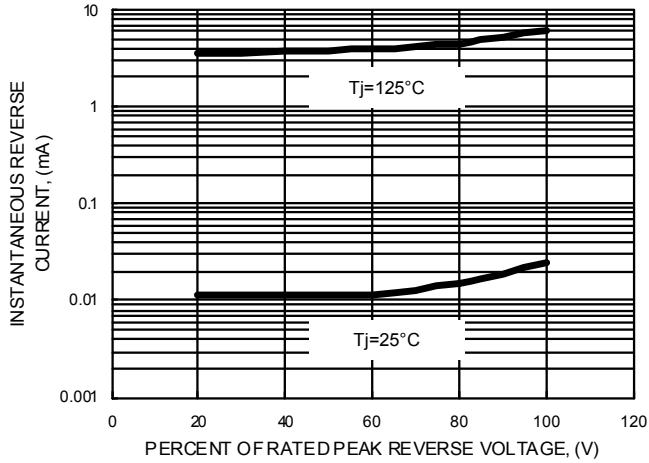


FIG.4- TYPICAL FORWARD CHARACTERISTICS

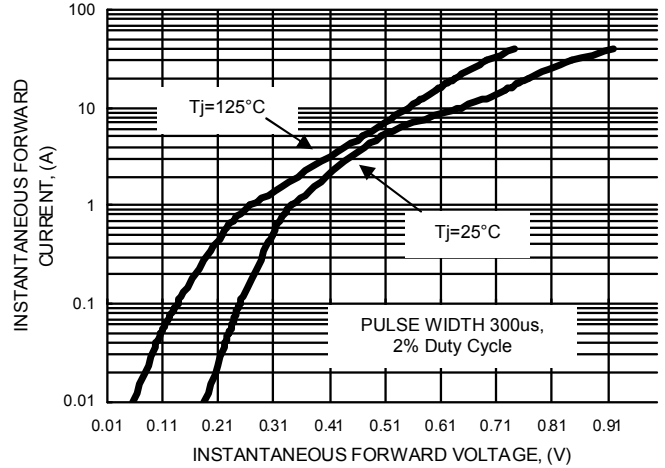
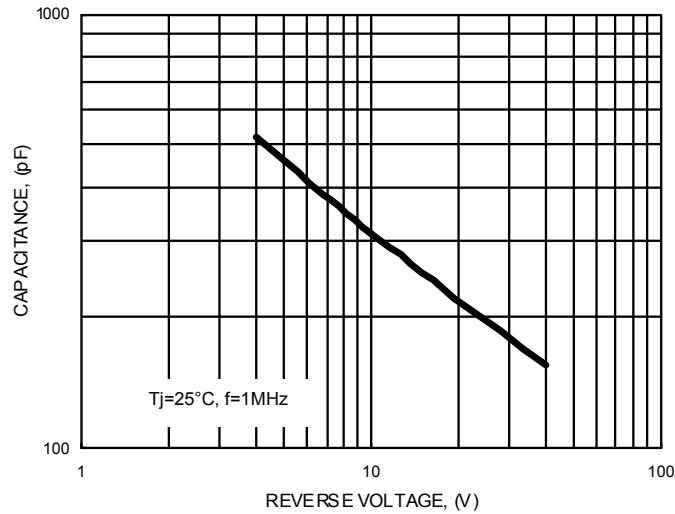


FIG.5- TYPICAL JUNCTION CAPACITANCE



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