

**SURFACE MOUNT
SCHOTTKY BARRIER RECTIFIERS**

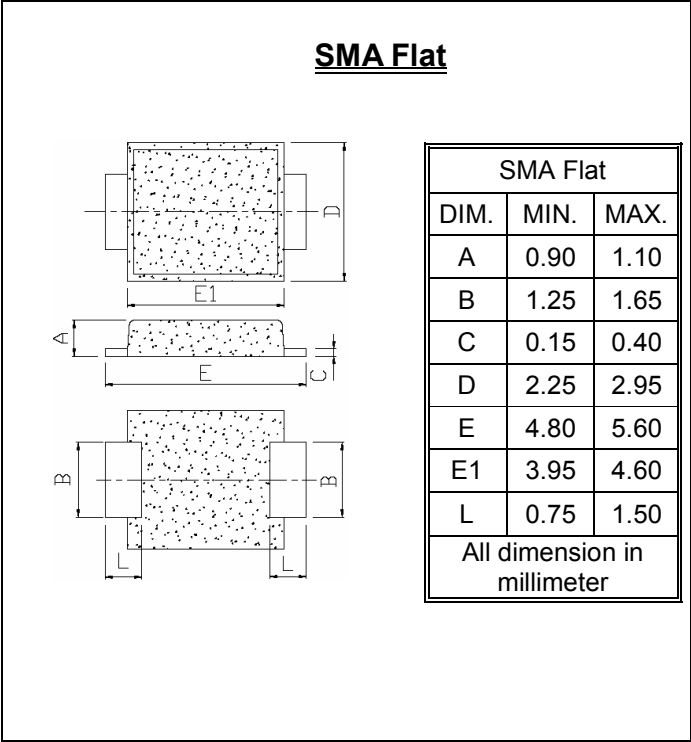
REVERSE VOLTAGE - 40 Volts
FORWARD CURRENT - 3.0 Amperes

FEATURES

- For surface mounted applications
- Metal-Semiconductor junction with guard ring
- Epitaxial construction
- Very Low forward voltage drop
- High current capability
- Plastic material has UL flammability classification 94V-0
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection application

MECHANICAL DATA

- Case: JEDEC DO-221AC
- Case Material: "Green" molding compound, UL flammability classification 94V-0, (No Br. Sb. Cl.)
- Moisture Sensitivity: Level 1 per J-STD-020C
- Terminals: Lead Free Plating (Matte Tin Finish.)
- Component in accordance to RoHs 2002/95/EC



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

CHARACTERISTICS	SYMBOL	FB340A	UNIT
Device marking code	Note	B34	---
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	40	V
Maximum DC Blocking Voltage	V_{DC}	40	V
Maximum Average Forward Rectified Current @ $T_C=100^\circ C$	I_{AV}	3.0	A
Peak Forward Surge 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	70	A
Maximum Forward Voltage at 3A DC	V_F	0.55	V
Maximum DC Reverse Current at Rated DC Blocking Voltage @ $T_j=25^\circ C$ @ $T_j=100^\circ C$	I_R	200 15	μA mA
Typical Junction Capacitance (Note 1)	C_j	160	pF
Typical Thermal Resistance (Note 2)	$R_{\theta JC}$ $R_{\theta JL}$ $R_{\theta JA}$	17 38 95	$^\circ C/W$
Operating Junction Temperature Range	T_j	-55 to +125	$^\circ C$
Storage Temperature Range	T_{STG}	-55 to +150	$^\circ C$

Note :
 (1) Measured at 1.0MHz and applied reverse voltage of 4.0V DC...
 (2) Thermal Resistance test performed in accordance with JESD-51. Unit mounted on 0.75t glass-epoxy substrate with 5x7mm copper pad. $R_{\theta JL}$ is measured at the lead of cathode band, $R_{\theta JC}$ is measured at the top centre of body.

FIG.1- FORWARD CURRENT DERATING CURVE

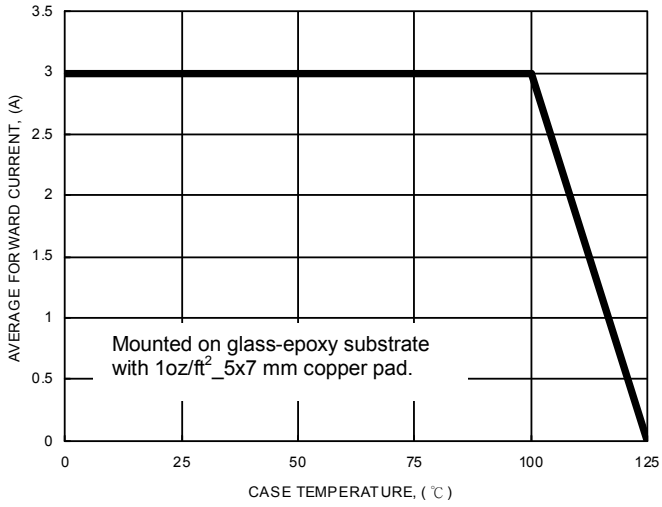


FIG.2- MAXIMUM NON-REPETITIVE SURGE CURRENT

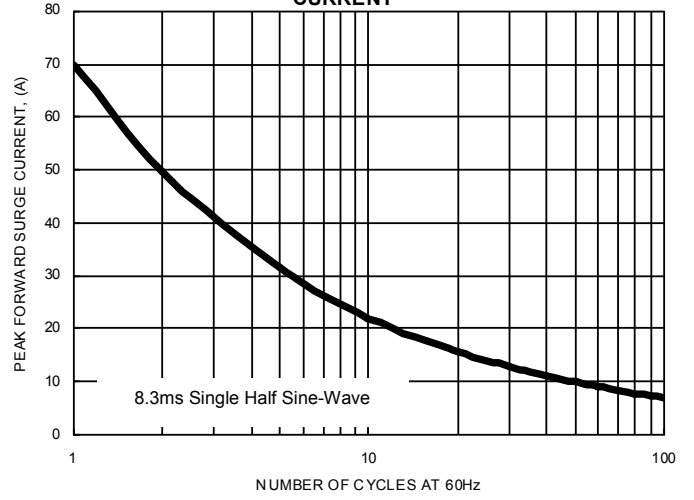


FIG.3- TYPICAL JUNCTION CAPACITANCE

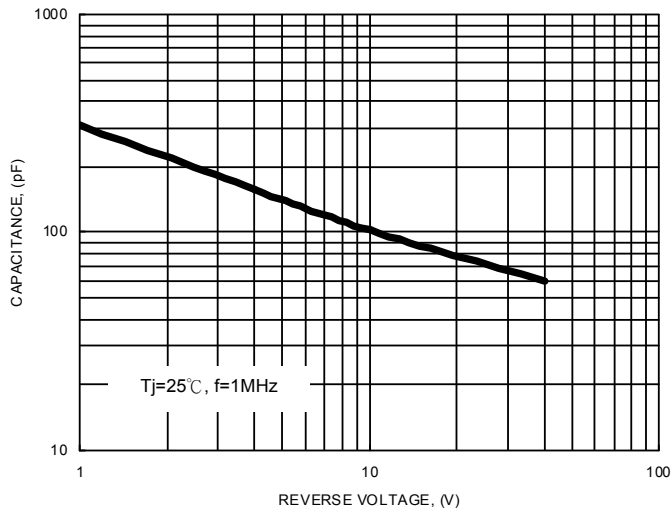


FIG.4- TYPICAL FORWARD CHARACTERISTICS

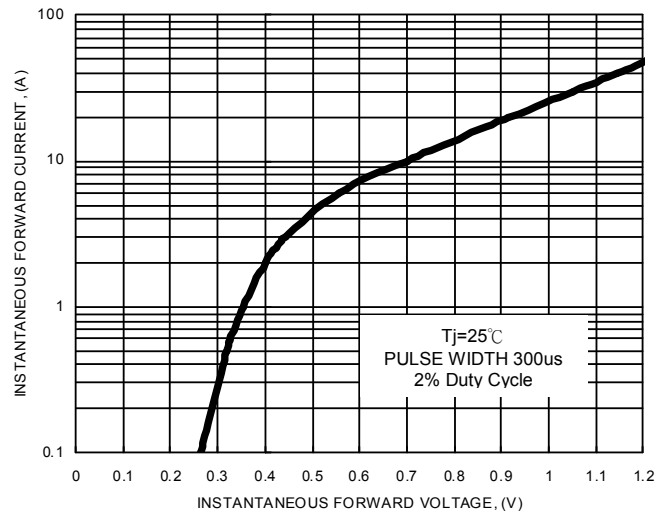
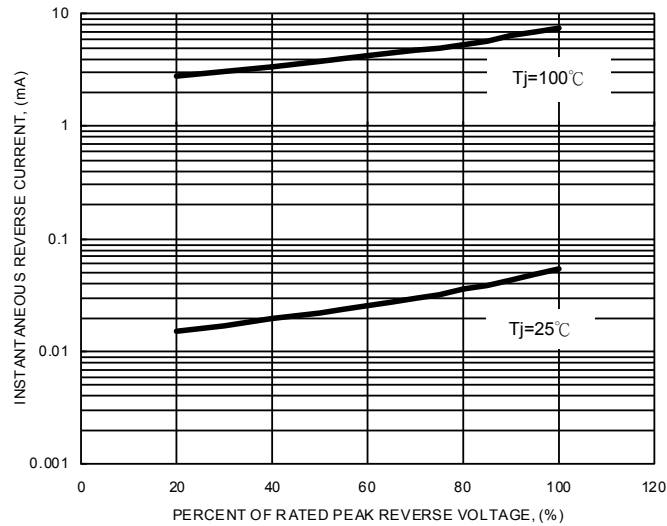


FIG.5- TYPICAL REVERSE CHARACTERISTICS



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