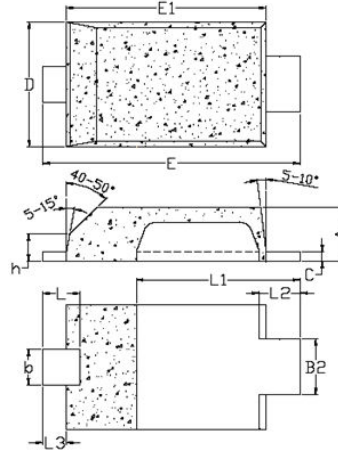


**SURFACE MOUNT
SCHOTTKY BARRIER RECTIFIER**
**REVERSE VOLTAGE – 40 Volts
FORWARD CURRENT – 3.0 Ampere**
FEATURES

- Case Material: “Green” molding compound, UL flammability classification 94V-0, (No Br. Sb. Cl.)
- Very low profile package – 0.80mm
- Super fast switching for high efficiency
- For surface mounted applications
- Very Low forward voltage drop and high current capability
- Low reverse leakage current

MECHANICAL DATA

- Case: JEDEC DO-222AA
- Moisture Sensitivity: Level 1 per J-STD-020C
- Terminals: Lead Free Plating (Matte Tin Finish.)
- Component in accordance to RoHs 2002/95/EC

Mite Flat


Mite Flat		
DIM.	MIN.	MAX.
A	0.80	0.95
b	0.40	0.65
b2	0.70	1.00
C	0.10	0.25
D	1.75	2.05
E	3.60	3.90
E1	2.80	3.10
h	0.35	0.50
L	0.50	0.80
L1	2.10	2.60
L2	0.45	0.75
L3	0.20	0.50
All dimension in millimeter		

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

PARAMETER	SYMBOL	FB340LM	UNIT
Device marking code	Note	B3G	---
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	40	V
Maximum RMS Voltage	V_{RMS}	28	V
Maximum DC Blocking Voltage	V_{DC}	40	V
Average Rectified Output Current @ $T_L=115^\circ\text{C}$, (Fig.1)	$I_{(AV)}$	3.0	A
Peak Forward Surge Current 8.3ms single half sine-wave	I_{FSM}	75	A
Forward Voltage (1) IF=0.5A IF=1.0A IF=3.0A @ $T_j=25^\circ\text{C}$	V_F	0.34 0.39 0.47	V
Leakage Current (1) VDC=Rated @ $T_j=25^\circ\text{C}$ @ $T_j=125^\circ\text{C}$	I_R	400 40	uA mA
Typical junction capacitance (2)	C_J	300	pF
Operating junction temperature	T_J	-55 to +150	°C
Storage temperature range	T_{STG}	-55 to +150	°C
THERMAL CHARACTERISTIC	SYMBOL	Typical	UNIT
Typical thermal resistance_Junction to Case (3)	$R_{\theta JC}$	29	°C/W
Typical thermal resistance_Junction to Ambient(3)	$R_{\theta JA}$	104	°C/W
Typical thermal resistance_Junction to Lead (3)	$R_{\theta JL}$	22	°C/W

Note :

- (1) 300us Pulse width, 2% Duty cycle.
- (2) Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
- (3) Thermal Resistance test performed in accordance with JESD-51. Unit mounted on glass-epoxy substrate with 1oz/ft² 7x5 mm copper pad.

REV. 0 , Nov-2010, KSHP11

FIG.1- FORWARD CURRENT DERATING CURVE

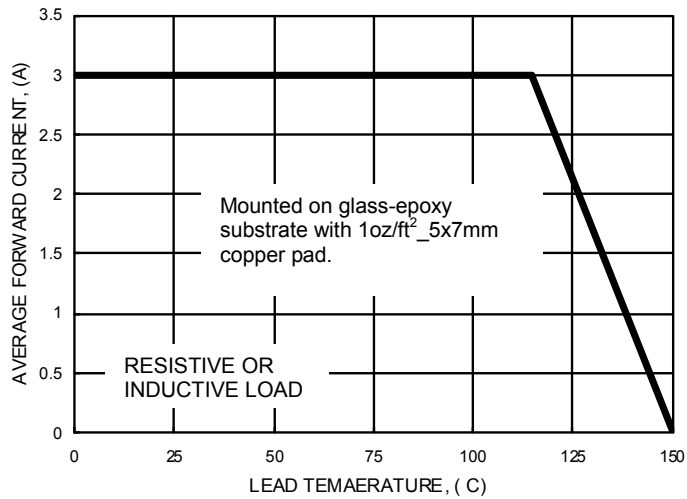


FIG.2- MAXIMUM NON-REPETITIVE SURGE CURRENT

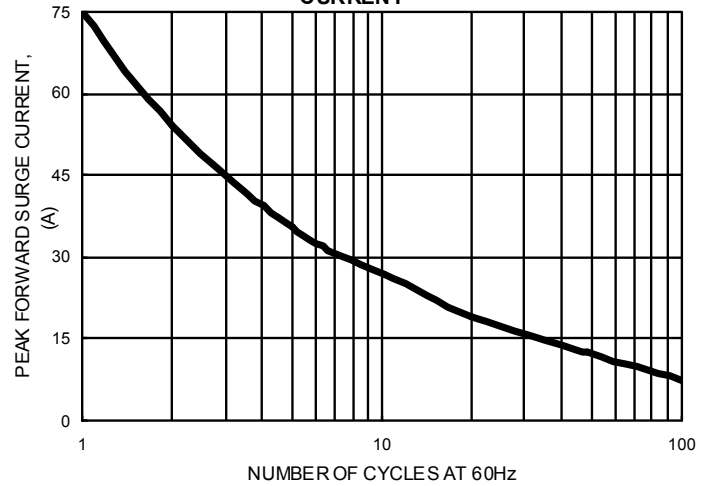


FIG.3- TYPICAL FORWARD CHARACTERISTICS

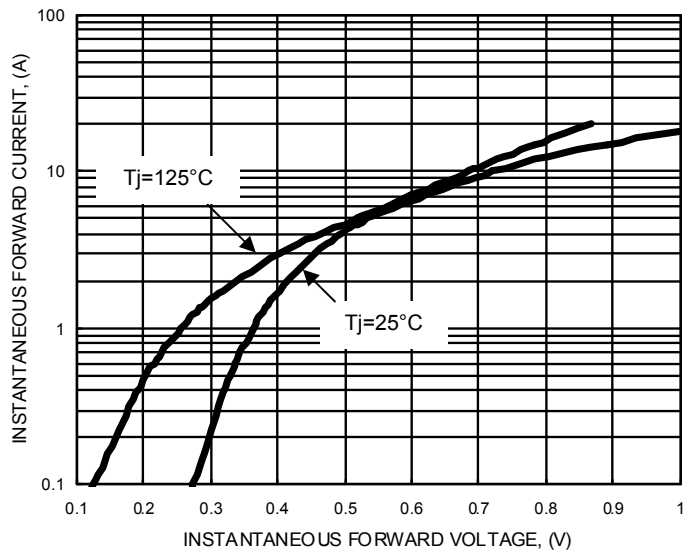


FIG.4- TYPICAL JUNCTION CAPACITANCE

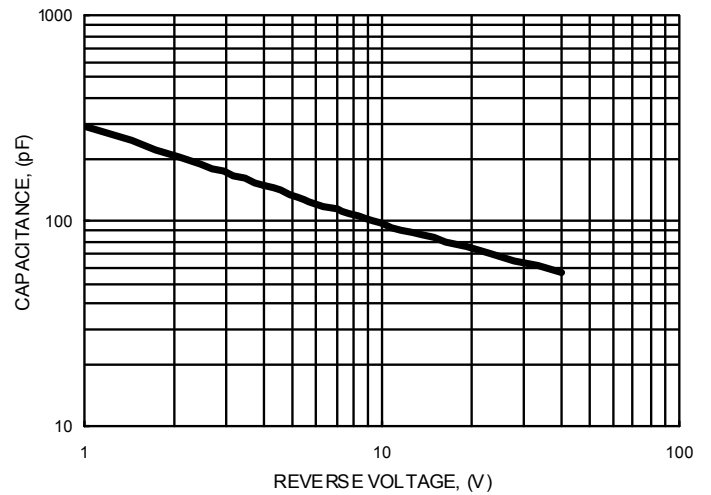


FIG.5- TYPICAL REVERSE CHARACTERISTICS

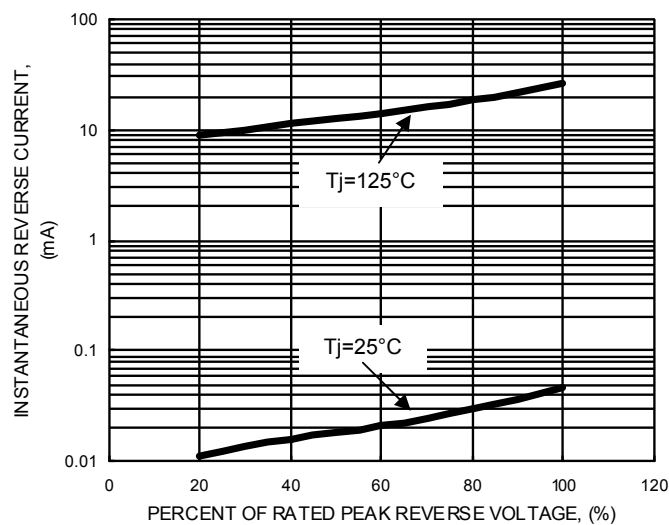
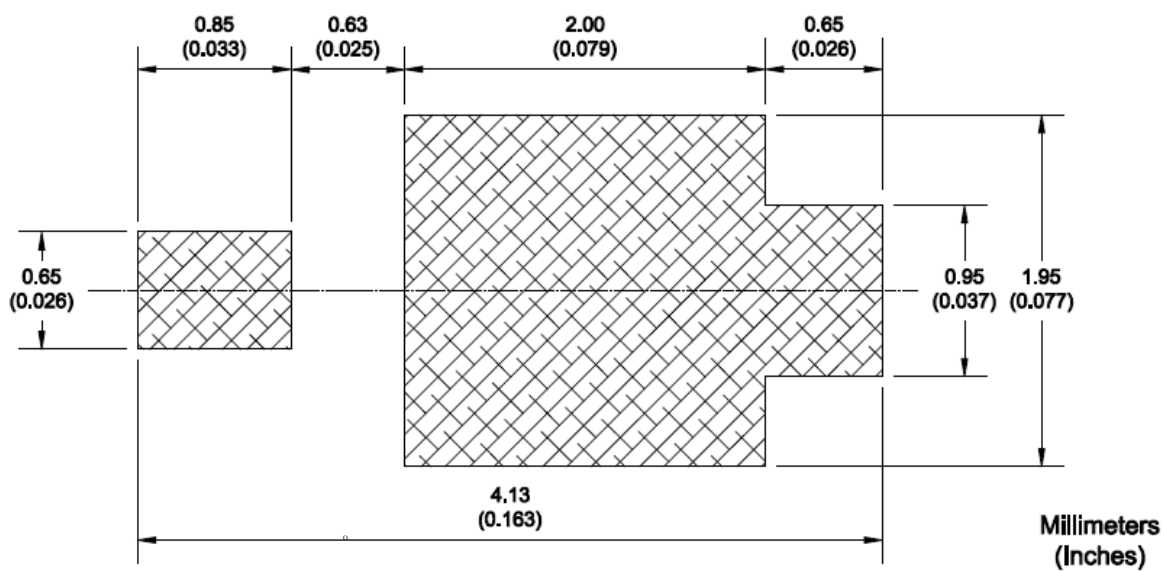


Fig.6 Recommended Foot Print of DO-222AA with Mite Flat



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