

**SURFACE MOUNT  
SCHOTTKY BARRIER RECTIFIER**

**REVERSE VOLTAGE – 40 Volts  
FORWARD CURRENT – 3.0 Ampere**

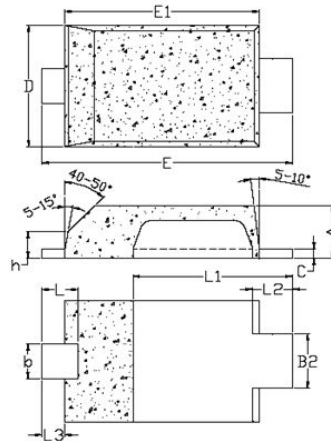
**FEATURES**

- 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.

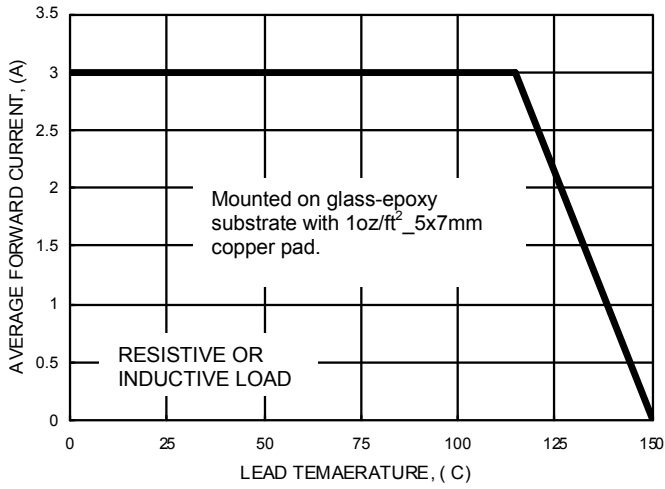
PARAMETER	SYMBOL	FB340LM	UNIT
Device marking code	Note	B3G	---
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	40	V
Maximum RMS Voltage	V <sub>RMS</sub>	28	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	40	V
Average Rectified Output Current @T <sub>L</sub> =115°C, (Fig.1)	I <sub>(AV)</sub>	3.0	A
Peak Forward Surge Current 8.3ms single half sine-wave	I <sub>FSM</sub>	75	A
Forward Voltage (1) IF=0.5A IF=1.0A IF=3.0A @T <sub>j</sub> =25°C	V <sub>F</sub>	0.34 0.39 0.47	V
Leakage Current (1) VDC=Rated @T <sub>j</sub> =25°C @T <sub>j</sub> =125°C	I <sub>R</sub>	200 40	uA mA
Typical junction capacitance (2)	C <sub>J</sub>	300	pF
Operating junction temperature	T <sub>J</sub>	-55 to +150	°C
Storage temperature range	T <sub>STG</sub>	-55 to +150	°C
THERMAL CHARACTERISTIC	SYMBOL	Typical	UNIT
Typical thermal resistance_Junction to Case (3)	R <sub>θJC</sub>	29	°C/W
Typical thermal resistance_Junction to Ambient(3)	R <sub>θJA</sub>	104	°C/W
Typical thermal resistance_Junction to Lead (3)	R <sub>θJL</sub>	22	°C/W

**Note :**

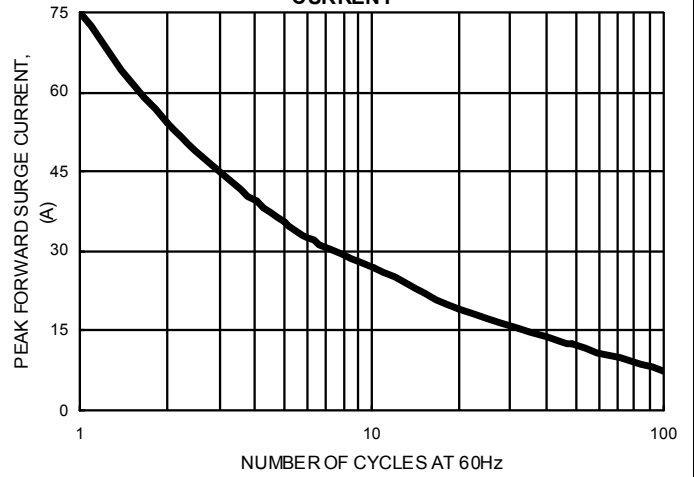
- (1) 300us Pulse width, 2% Duty cycle.
- (2) Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
- (3) Thermal Resistance test performed in accordance with JESD-51. Unit mounted on glass-epoxy substrate with 1oz/ft<sup>2</sup> 7x5 mm copper pad.

REV. 1 , Apr-2014, KSHP11

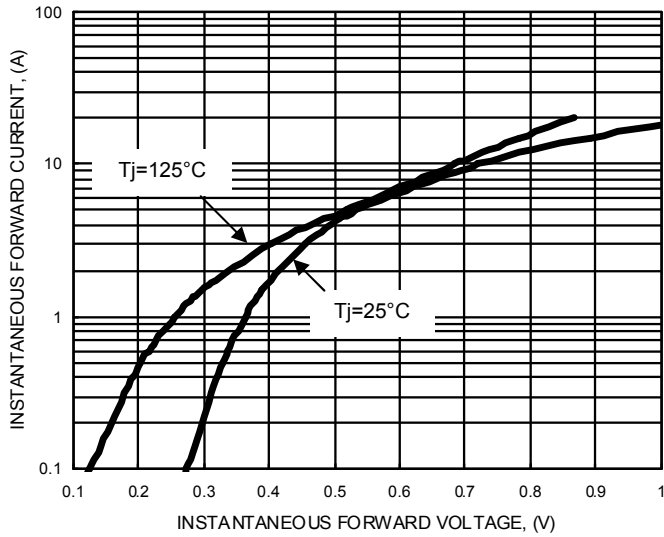
**FIG.1- FORWARD CURRENT DERATING CURVE**



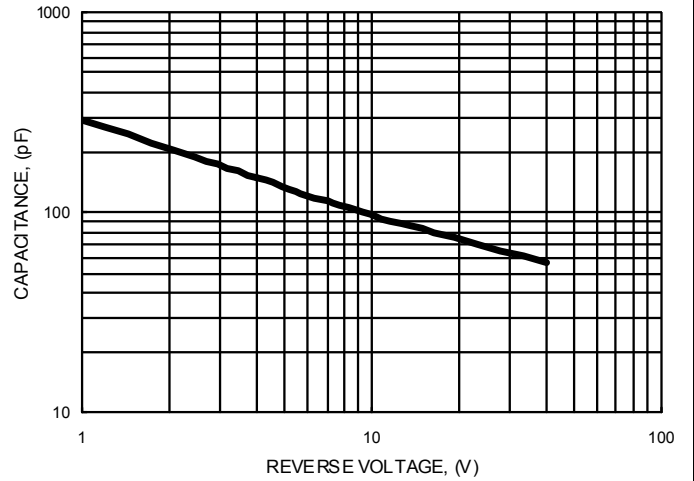
**FIG.2- MAXIMUM NON-REPETITIVE SURGE CURRENT**



**FIG.3- TYPICAL FORWARD CHARACTERISTICS**



**FIG.4- TYPICAL JUNCTION CAPACITANCE**



**FIG.5- TYPICAL REVERSE CHARACTERISTICS**

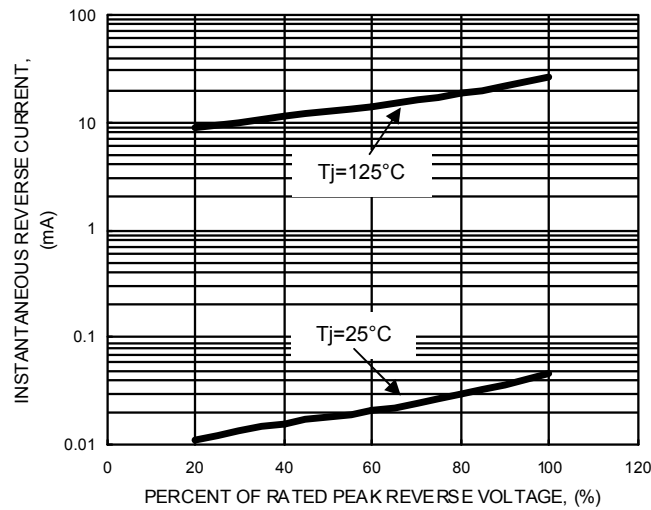
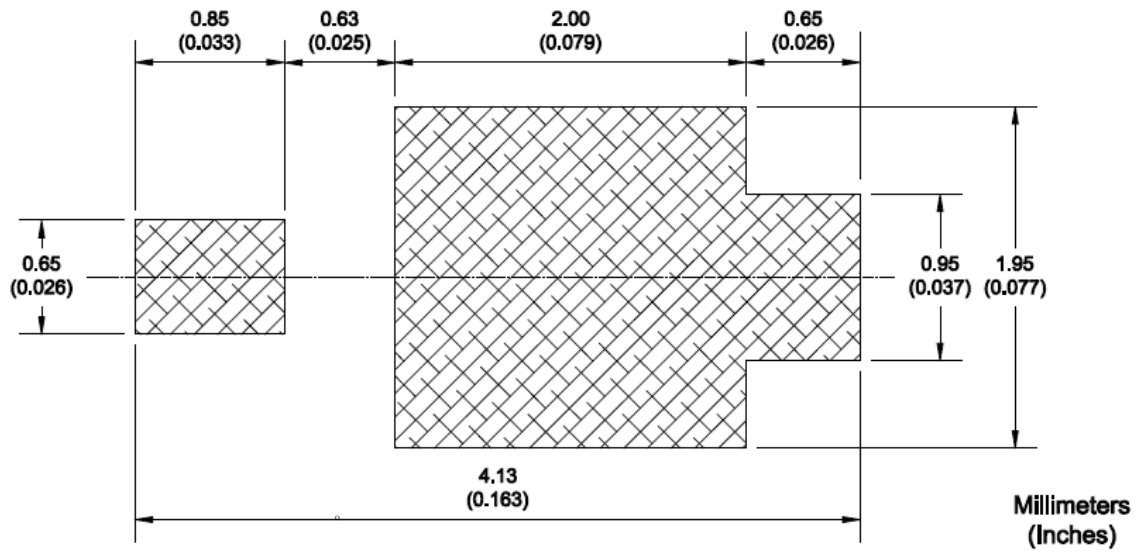


Fig.6 Recommended Foot Print of DO-222AA with Mite Flat



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