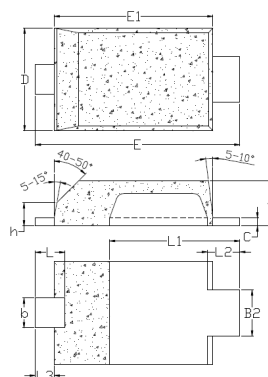


**SURFACE MOUNT
SCHOTTKY BARRIER RECTIFIER**
**REVERSE VOLTAGE – 20 to 30 Volts
FORWARD CURRENT – 2.0 Ampere**
FEATURES

- Very low profile package – 0.80mm
- High efficiency
- Extremely fast switching
- Negligible switching losses
- Low forward voltage drop, low power loss

MECHANICAL DATA

- Case: JEDEC DO-222AA
- 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

Mite Flat


DO-222AA		
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		

ANODE → CATHODE
TAB 2 → TAB 1

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

PARAMETER			SYMBOL	FB220LM	FB230LM	UNIT
Device marking code			Note	B2D	B2E	---
Maximum Repetitive Peak Reverse Voltage			V _{RRM}	20	30	V
Maximum RMS Voltage			V _{RMS}	14	21	V
Maximum DC Blocking Voltage			V _{DC}	20	30	V
Average Rectified Output Current @T _L =110°C			I _(AV)	2.0		A
Peak Forward Surge Current 8.3ms single half sine-wave			I _{FSM}	50		A
Operating junction temperature range			T _J	-55 to +125		°C
Storage temperature range			T _{STG}	-55 to +150		°C
PARAMETER	TEST CONDITIONS		SYMBOL	Min.	Max.	UNIT
Forward Voltage (1)	IF=2.0A	Tj=25°C	V _F	---	0.44	V
Leakage Current (1)	VR= V _{DC}	Tj=25°C Tj=80°C	I _R	---	0.4 15	mA
THERMAL CHARACTERISTIC			SYMBOL	Typical		UNIT
Typical junction capacitance (2)			C _J	120		pF
Typical thermal resistance _ Junction to Case (3)			R _{ΘJC}	22		°C/W
Typical thermal resistance _ Junction to Ambient (3)			R _{ΘJA}	60		°C/W
Typical thermal resistance _ Junction to Lead (3)			R _{ΘJL}	18		°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 JE5D-51. Unit mounted on 0.75t glass-epoxy substrate with 5x7 mm copper pad. $R_{\theta JL}$ is measured at the lead of cathode band, $R_{\theta JC}$ is measured at the top centre of body.

REV. 2, Oct-2010, KSHP05

FIG.1- FORWARD CURRENT DERATING CURVE

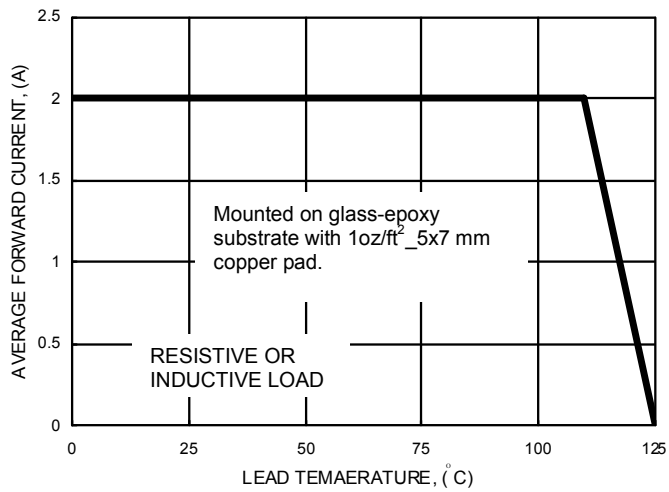


FIG.2- MAXIMUM NON-REPETITIVE SURGE CURRENT

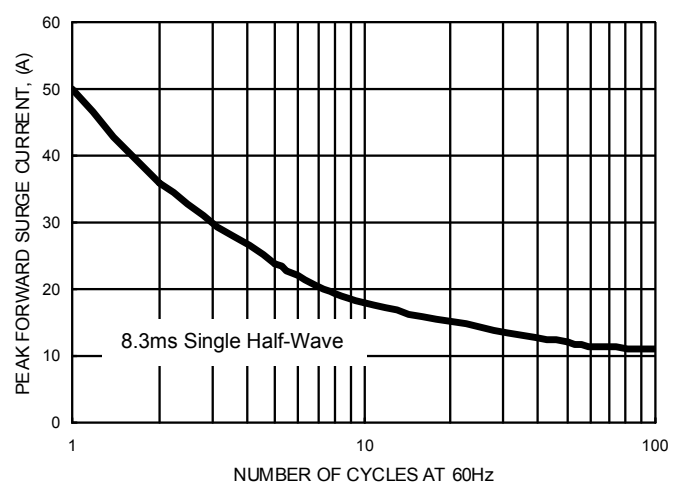


FIG.3- TYPICAL FORWARD CHARACTERISTICS

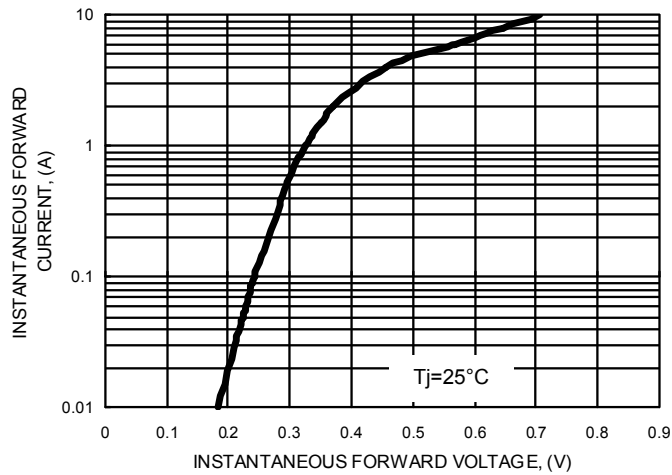


FIG.4- TYPICAL JUNCTION CAPACITANCE

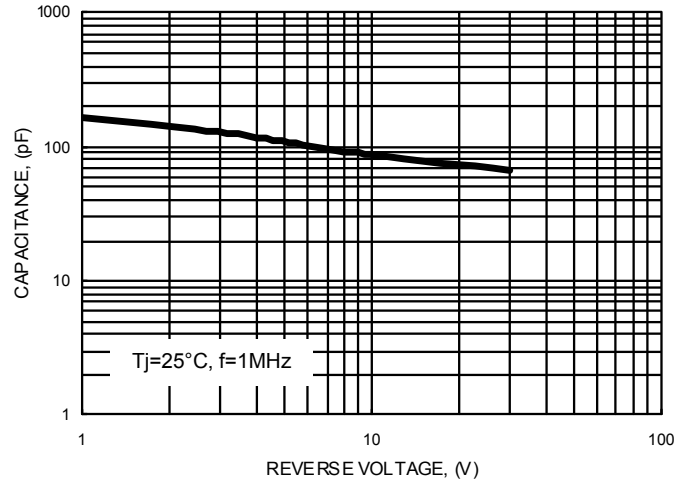


FIG.5- TYPICAL REVERSE CHARACTERISTICS

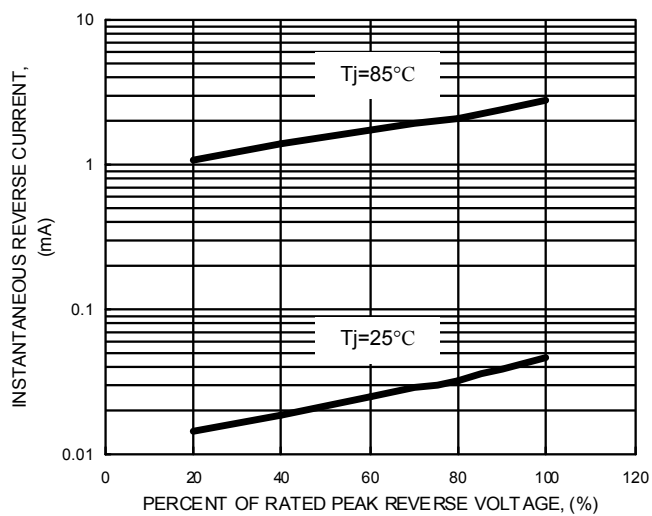


FIG.6- DC REVERSE VOLTAGE DERATING CURVE

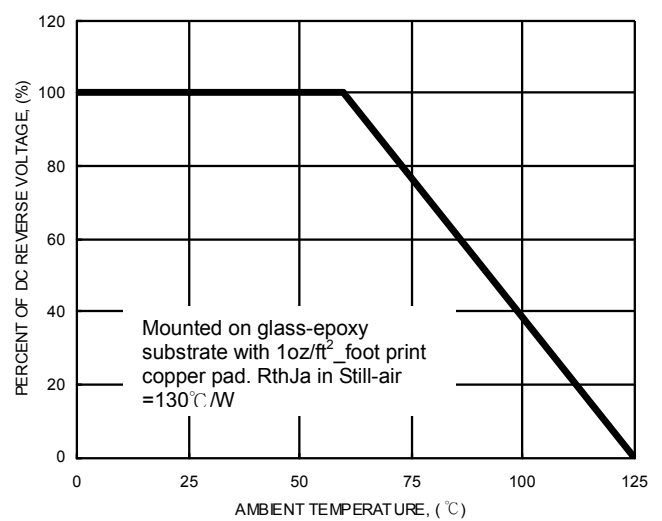
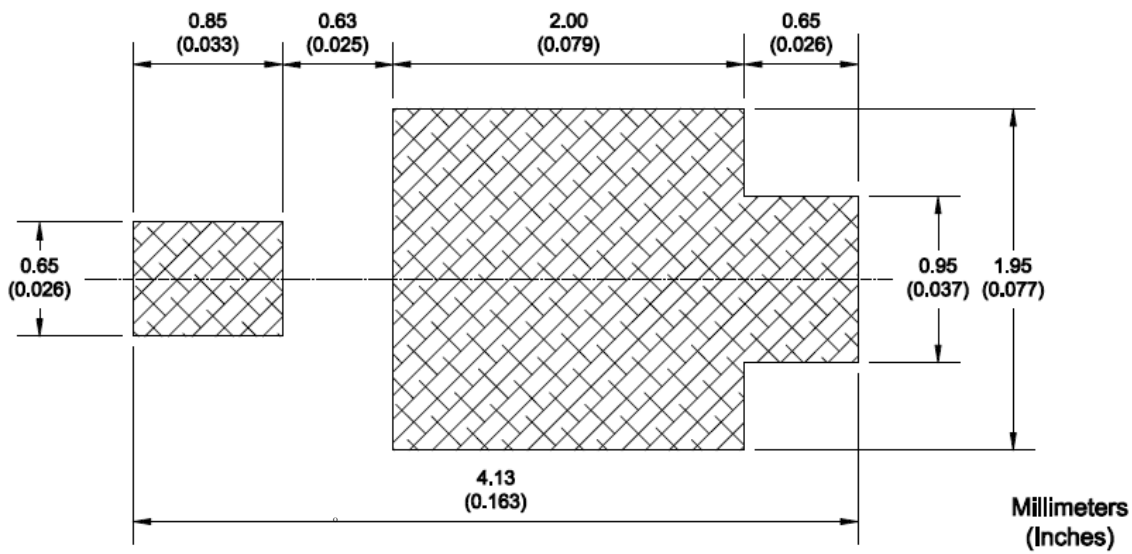


Fig.7 Recommended Foot Print of DO-222AA with Mite Flat



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