

FB330M ~ FB340M

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

REVERSE VOLTAGE – 40Volts FORWARD CURRENT – 3.0 Ampere

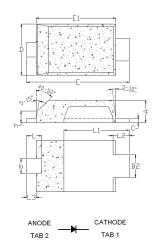
FEATURES

- Very low profile package 0.80mm
- · High efficiency
- · Low forward voltage drop, low power loss
- For use in low voltage, high frequency inverters, free wheeling, dc-to-dc converters and polarity protection applications
- ESD Capability: Machine Model, C (> 400 V) Human Body Model, 3B (> 8 kV)

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.)
- · Reliability tested in accordance with AEC-Q101
- Component in accordance to RoHs 2002/95/EC

Mite Flat



DO-222AA						
DIM.	MIN.	MAX.				
Α	0.80	0.95				
b	0.40	0.65				
b2	0.70	1.00				
С	0.10	0.25				
D	1.75	2.05				
Е	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.

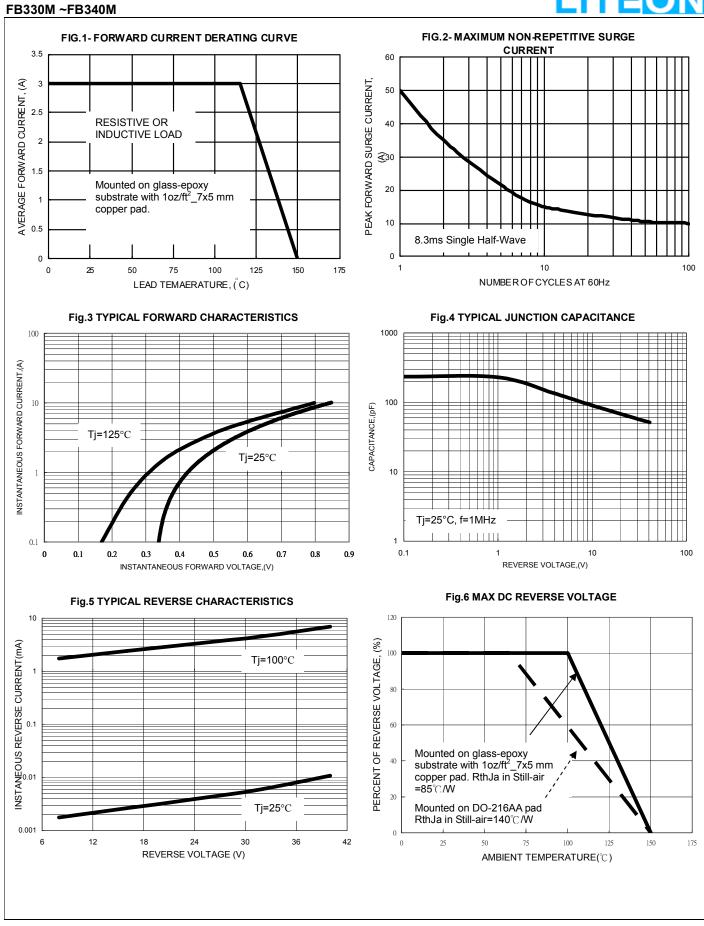
PARAMETER			SYMBOL	FB330M	FB340M	UNIT
Device marking code			Note	B33	B34	
Maximum Repetitive Peak Reverse Voltage			V_{RRM}	30	40	V
Maximum RMS Voltage			V _{RMS}	21	28	V
Maximum DC Blocking Voltage			V_{DC}	30	40	V
Average Rectified Output Current @T _L =115°C,(Fig.1)			I _(AV)	3.0		А
Peak Forward Surge Current 8.3ms single half sine-wave			I _{FSM}	5	50	
Operating junction and storage temperature range		T _{STG} ,T _J	-55 to +150		°C	
PARAMETER	TEST CO	TEST CONDITIONS		Тур.	Max.	UNIT
Forward Voltage (1)	IF=3.0A	Tj=25°C Tj=125°C	V _F	0.52 0.45	0.58 0.48	V
Leakage Current (1)	VDC=Rated	Tj=25°C Tj=100°C	I _R		200 15	uA mA
THERMAL CHARACTERISTIC		SYMBOL	Typical		UNIT	
Typical junction capacitance (2)		CJ	135		pF	
Typical thermal resistance_Junction to Case (3)			R⊕ _{JC}	15		°C/W
Typical thermal resistance_Junction to Ambient(3)			R⊖ _{JA}	85		°C/W
Typical thermal resistance_Junction to Lead (3)			R⊖JL	20		°C/W
DEV.E. May 2012 VOI						

Note:

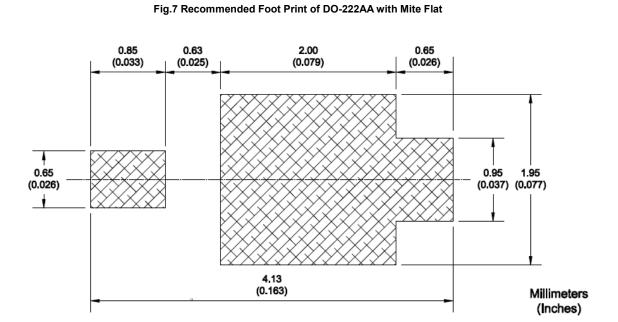
REV.5, Mar-2012, KSHP01

- 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. R_{ejL} is measured at the lead of cathode band, R_{ejC} is measured at the top centre of body, R_{eja} is measured at top surface of the package to surrounding natural convection (Still air) ambient.











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