LITEON SEMICONDUCTORS

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

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

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 @TL=115°C, (Fig.1)	I _(AV)	3.0	А	
Peak Forward Surge Current 8.3ms single half sine-wave	I _{FSM}	75	А	
IF=0.5A Forward Voltage (1) IF=1.0A @Tj=25°C IF=3.0A	V _F	0.34 0.39 0.47	V	
Leakage Current (1) VDC=Rated @Tj=25°C @Tj=125°C	I _R	200 40	uA mA	
Typical junction capacitance (2)	CJ	300	pF	
Operating junction temperature	TJ	-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⊖ _{JC}	29	°C/W	
Typical thermal resistance_Junction to Ambient(3)	R⊖ _{JA}	104	°C/W	
Typical thermal resistance_Junction to Lead (3)	R⊖ _{JL}	22	°C/W	
Note :		REV. 1 , Apr-2014, KS	REV. 1 , Apr-2014, KSHP11	

Note :

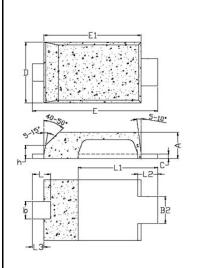
(1) 300us Pulse width, 2% Duty cycle.

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 glass-epoxy (3) substrate with 1oz/ft²_7x5 mm copper pad.

REVERSE VOLTAGE – 40 Volts FORWARD CURRENT – 3.0 Ampere

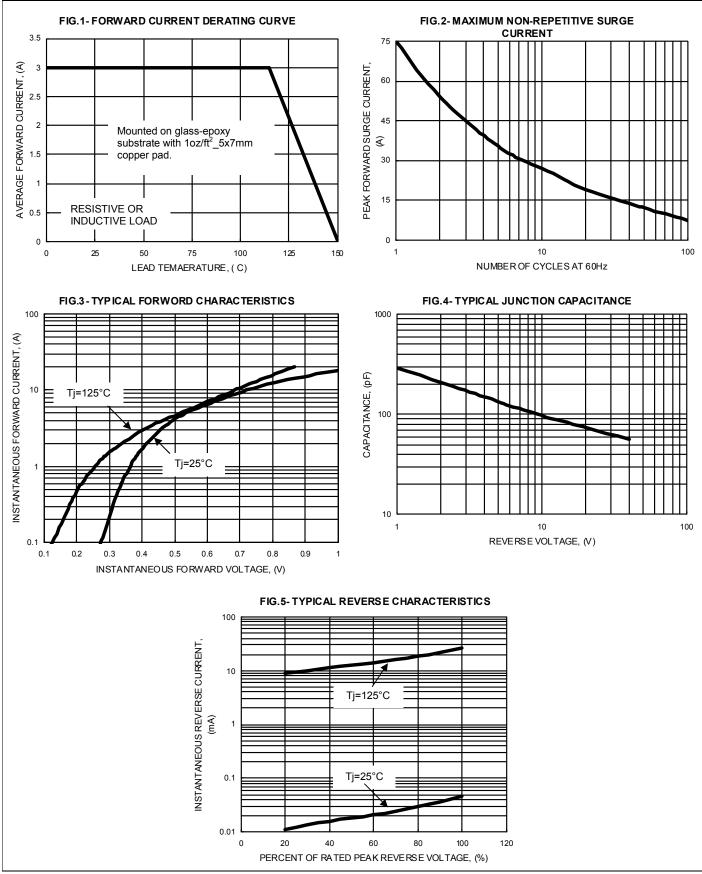
Mite Flat



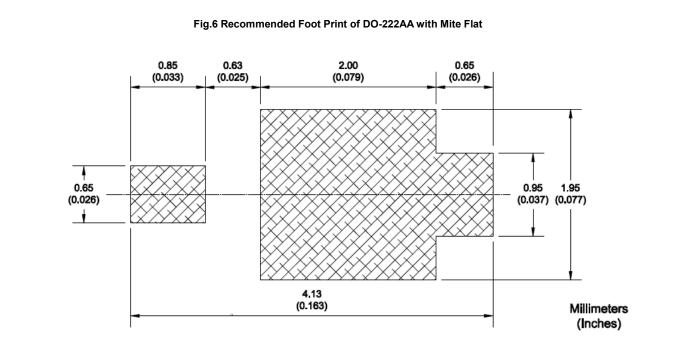
Mite Flat			
DIM.	MIN.	MAX.	
Α	0.80	0.95	
b	0.40	0.65	
b2	0.70	1.00	
С	0.10	0.25	
D	1.75	2.05	
E	3.60	3.90	
E1	2.80	3.10	
h	0.35	0.50	
L	0.50	0.80	
L1	2.10	2.60	
L2	0.45	0.75	
L3	0.20	0.50	
All dimension in millimeter			

FB340LM

RATING AND CHARACTERISTIC CURVES FB340LM



Mechanics drawing FB340LM



LITEON



Important Notice and Disclaimer

LSC reserves the right to make changes to this document and its products and specifications at any time without notice. Customers should obtain and confirm the latest product information and specifications before final design, purchase or use.

LSC makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does LSC assume any liability for application assistance or customer product design. LSC does not warrant or accept any liability with products which are purchased or used for any unintended or unauthorized application.

No license is granted by implication or otherwise under any intellectual property rights of LSC.

LSC products are not authorized for use as critical components in life support devices or systems without express written approval of LSC.