



**FB340LA** 

# REVERSE VOLTAGE

FORWARD CURRENT - 3.0 Ar

SMA Flat

40 Volts3.0 Amperes

**SMA Flat** 

DIM. MIN. MAX.

Α

В

С

D

Ε

E1

L

0.90 1.10

1.25 1.65

0.15 0.40

2.25 2.95

4.80 5.60

3.95 4.60

0.75 1.50

All dimension in

millimeter

## FEATURES

- Very low profile package 0.98mm
- High efficiency
- · Low forward voltage drop, low power loss
- Qualified according to AEC-Q101 Rev\_C
- For use in low voltage, high frequency inverters, free wheeling, dc-to-dc converters and polarity protection applications

SURFACE MOUNT

SCHOTTKY BARRIER RECTIFIER

- Lead-Free Finish; RoHS Compliant (Notes 1 & 2)
- Halogen and Antimony Free. "Green" Device (Note 3)

#### **MECHANICAL DATA**

- Package: JEDEC DO-221AC
- Package Material: "Green" molding compound, UL flammability classification 94V-0
- Moisture Sensitivity: Level 1 per J-STD-020
- Terminals: Lead Free Plating (Matte Tin Finish.) (3)
- Component in accordance to RoHS 2002/95/EC
- Weight: 0.064 grams (Approximate)

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

#### ABSOLUTE RATINGS

PARAMETER	SYMBOL	FB340LA	UNIT
Device marking code	Note	B3G	V
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> =105°C(Fig.1	) I <sub>(AV)</sub>	3.0	А
Peak Forward Surge Current 8.3ms single half sine-wave	I <sub>FSM</sub>	50	А
Forward Voltage(Note 4) IF=3.0A @T_j=25°C @T_j=100°C	V <sub>F</sub>	0.40 0.37	V
Leakage Current(Note 4) VDC=Rated @T_j=25°C @T_j=100°C	I <sub>R</sub>	0.5 45	mA
Typical Junction Capacitance (Note 5)	CJ	370	pF
Operating junction temperature	TJ	-55 to +150	°C
Storage temperature range	Tstg	-55 to +150	°C
THERMAL CHARACTERISTIC	SYMBOL	Typical	UNIT
Typical thermal resistance junction to Case (Note 6)	RØJC	25	°C/W
Typical thermal resistance junction to Ambient (Note 6)	RØJA	65	°C/W
Typical thermal resistance junction to Lead (Note 6)	RØJL	17	°C/W

Notes:

1. EU Directive 2002/95/EC (RoHS), 2011/65/EU (RoHS 2) & 2015/863/EU (RoHS 3) compliant. All applicable RoHS exemptions applied.

2. See https://www.diodes.com/quality/lead-free/ for more information about Diodes Incorporated's definitions of Halogen- and Antimony-free, "Green" and Lead-free.

3. Halogen- and Antimony-free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony

compounds.

4. 300us Pulse width, 2% Duty cycle.

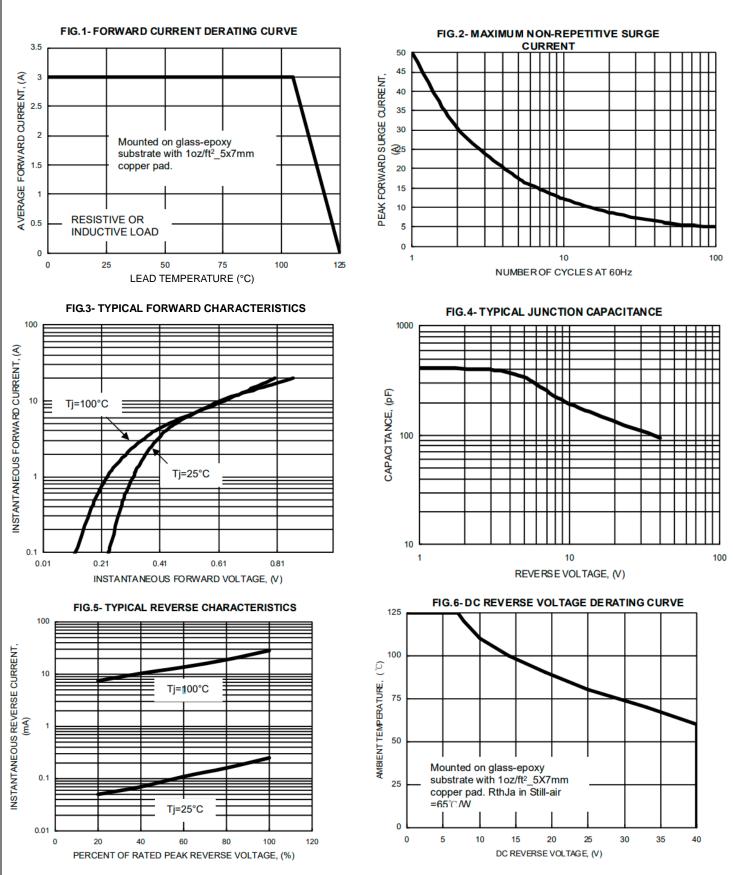
5. Measured at 1.0MHz and applied voltage of 4.0V DC.

6. Thermal Resistance test performed in accordance with JESD-51. Unit mounted on glass-epoxy substrate with 1oz/ft2\_7x5 mm copper pad.



# RATING AND CHARACTERISTIC CURVES

#### FB340LA



**LITE-ON** 

SEMICONDUCTOR

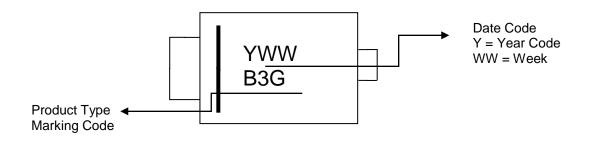
A Product Line of Diodes Incorporated



# **Ordering Information:**

Dort Number	Deskage	Packing		
Part Number	Package	Qty.	Carrier	
FB340LA	SMA Flat	10000	Tape & Reel	

## Marking Information:





## LITE-ON SEMICONDUCTOR

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