







SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

REVERSE VOLTAGE - 40 Volts FORWARD CURRENT – 3.0 Ampere

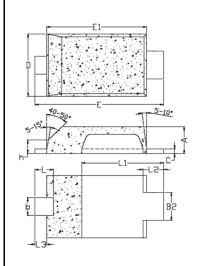
FEATURES

- 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
- Qualified according to AEC-Q101 Rev_C
- Lead-Free Finish; RoHS Compliant (Notes 1 & 2)
- Halogen and Antimony Free. "Green" Device (Note 3)

MECHANICAL DATA

- Case: JEDEC DO-222AA
- Case Material: "Green" molding compound, UL flammability classification 94V-0
- 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)



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

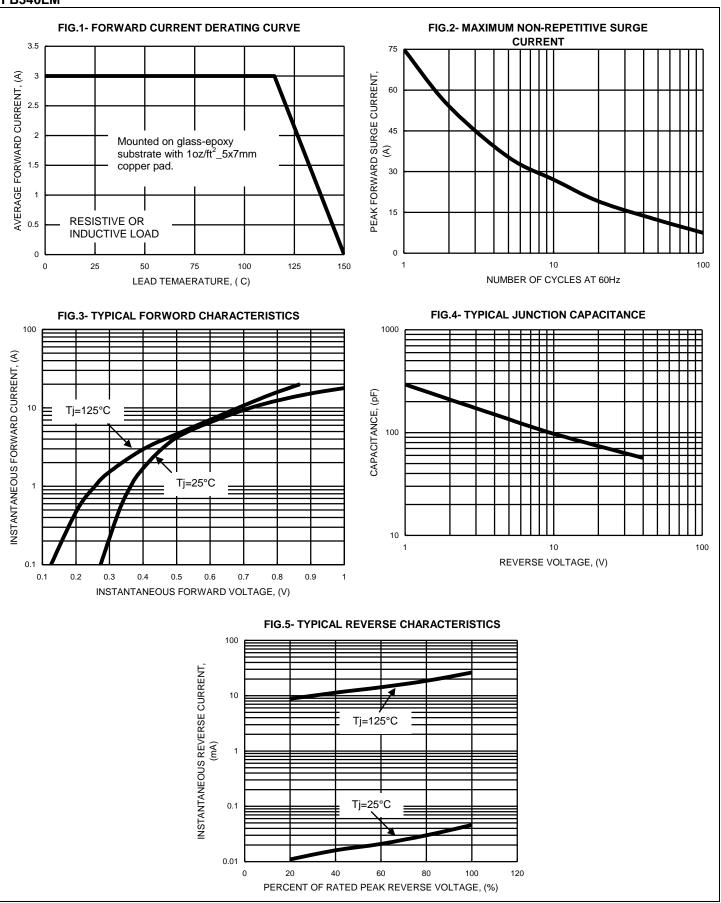
Ratings at 25°C ambient temperature unless otherwise specified.

PARAMETER	SYMBOL	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 @T _L =115°C, (Fig.1)	I _(AV)	3.0	Α
Peak Forward Surge Current 8.3ms single half sine-wave	I _{FSM}	75	Α
Forward Voltage (4)	V _F	0.34 0.39 0.47	V
Leakage Current (4) VDC=Rated @Tj=25°C @Tj=125°C	I _R	200 40	uA mA
Typical junction capacitance (5)	C _T	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 (6)	R⊕ _{JC}	29	°C/W
Typical thermal resistance_Junction to Ambient(6)	$R_{\Theta_{JA}}$	104	°C/W
Typical thermal resistance_Junction to Lead (6)	R⊖JL	22	°C/W
lote :		REV. 3, Oct. 2021, KS	HP11

(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 reverse 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 FB340LM

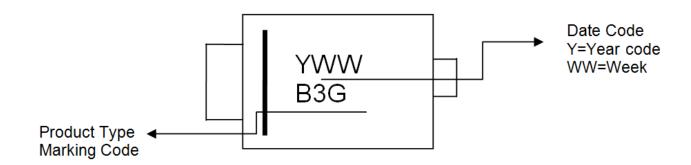


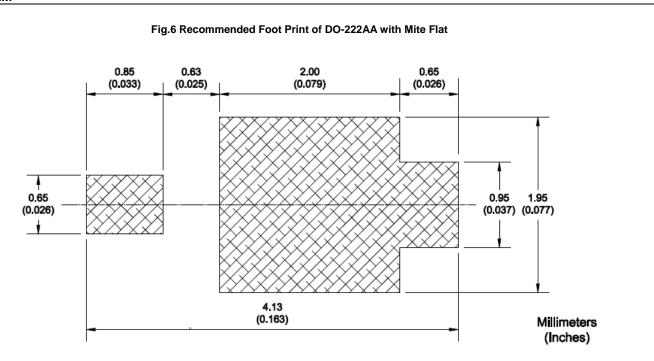
FB340LM

Ordering Information:

Part Number	Package	Packing		
Fait Number	rackaye	Qty.	Carrier	
FB340LM	DO-222AA	12000	Tape & Reel	

Marking Information:







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