



FB240LM

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

40 Volts REVERSE VOLTAGE **FORWARD CURRENT** 2.0 Amperes

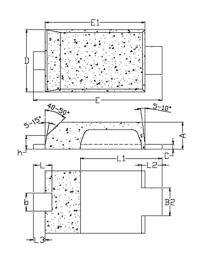
FEATURES

- 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
- 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, (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)



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.

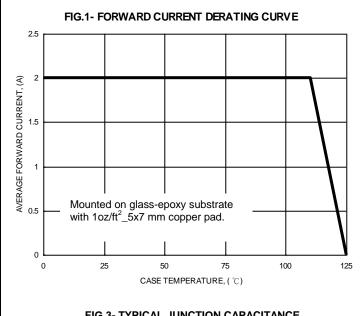
CHARACTERISTICS	SYMBOL	FB240LM		UNIT
Device marking code	Note	B2G		
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	40		V
Maximum DC Blocking Voltage	VDC	40		V
Maximum Average Forward Rectified Current @Tc=110°C	I _{AV}	2.0		А
Peak Forward Surge 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	50		А
Maximum Forward Voltage at 2A DC	V _F	0.44	0.44	
Maximum DC Reverse Current @Tj=25°C at Rated DC Blocking Voltage @Tj=100°C	I _R	200 15		uA mA
Typical Junction Capacitance (Note 4)	Ст	160	160	
Typical Thermal Resistance (Note 5, 6)	R⊖ _{JC} R⊖ _{JL} R⊖ _{JA}	22 44 100		°C/W
Operating Junction Temperature Range	Tj	-55 to +125		°C
Storage Temperature Range	T _{STG}	-55 to +150		°C
Note:			REV.2, Oct. 2021, K	SHP17

(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) Measured at 1.0MHz and applied reverse voltage of 4.0V DC...
- (5) Thermal Resistance test performed in accordance with JESD-51. Unit mounted on 0.75t glass-epoxy substrate with 5x7mm copper pad. ROJL is measured at the lead of cathode band, ROJC is measured at the top centre of body.

(6) Thermal resistance to Case, Lead and Ambient.

RATING AND CHARACTERISTIC CURVES FB240LM



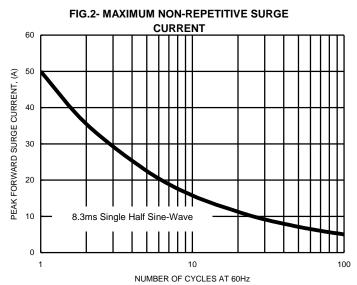
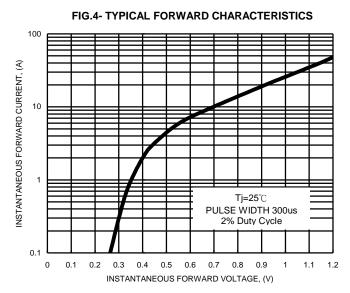
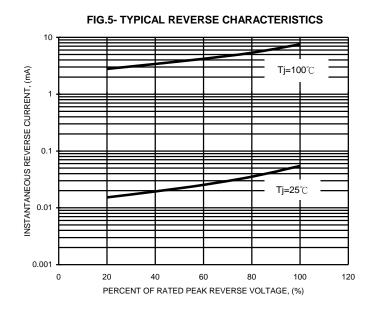


FIG.3- TYPICAL JUNCTION CAPACITANCE 1000 Tj=25°C, f=1MHz 100 REVERSE VOLTAGE, (V)



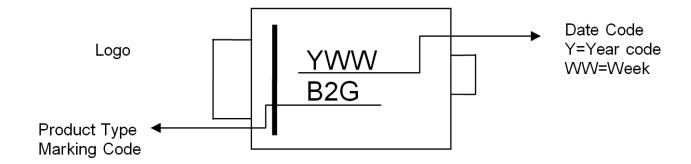




Ordering Information:

Part Number	Pookogo	Packing		
	Package	Qty.	Carrier	
FB240LM	DO-222AA	12000	Tape & Reel	

Marking Information:



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