

**Micro Commercial Components** 



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## FRA801G **THRU** FRA807G

## 8 Amp Glass **Passivated Fast Recovery Rectifier** 50 to 1000 Volts

- High Reliability
- High Surge Current Capability Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates RoHS Compliant. See ordering information)
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 1 Marking: Type number
- Halogen free available upon request by adding suffix "-HF"

- Mounting Torgue: 5 in-lbs Maximum
- Operating Temperature: -55°C to +150°C Storage Temperature: -55°C to +150°C
- Typical Thermal Resistance: 3.0 °C/W junction to case

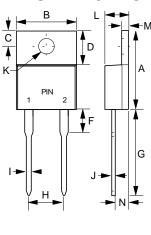
MCC Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
FRA801G	50V	35V	50V
FRA802G	100V	70V	100V
FRA803G	200V	140V	200V
FRA804G	400V	280V	400V
FRA805G	600V	420V	600V
FRA806G	800V	560V	800V
FRA807G	1000V	700V	1000V

## Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I <sub>F(AV)</sub>	8 A	Tc = 100°C
Peak Forward Surge Current	I <sub>FSM</sub>	150A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	$V_{F}$	1.3V	I <sub>FM</sub> = 8.0A
Maximum DC Reverse Current At Rated DC Blocking Voltage	I <sub>R</sub>	5.0μA 100μA	T <sub>A</sub> = 25°C T <sub>A</sub> = 125°C
Maximum Reverse Recovery Time FRA801G-804G FRA805G FRA806G-807G	T <sub>rr</sub>	150ns 250ns 500ns	I <sub>F</sub> =0.5A, I <sub>R</sub> =1.0A, I <sub>RR</sub> =0.25A
Typical Junction Capacitance	CJ	60pF	Measured at 1.0MHz, V <sub>R</sub> =4.0V

Notes: 1. High Temperature Solder Exemption Applied, see EU Directive Annex 7.

# **TO-220AC**



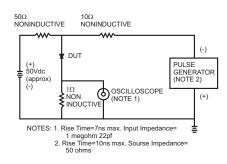


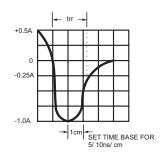
DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.560	.625	14.22	15.88	
В	.380	.420	9.65	10.67	
С	.100	.135	2.54	3.43	
D	.230	.270	5.84	6.86	
F		.250		6.35	
G	.500	.580	12.70	14.73	
Н	.190	.210	4.83	5.33	
	.020	.045	0.51	1.14	
J	.012	.025	0.30	0.64	
K	.139	.161	3.53	4.09	Ø
L	.140	.190	3.56	4.83	
M	.045	.055	1.14	1.40	
N	.080	.115	2.03	2.92	

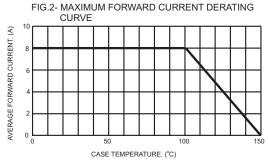
## FRA801G thru FRA807G

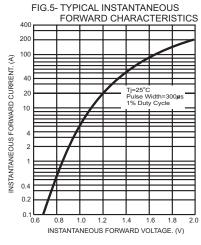


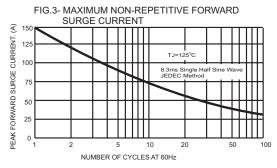
FIG.1- REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM



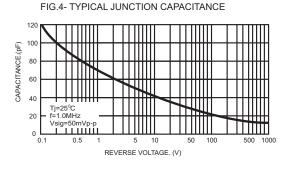


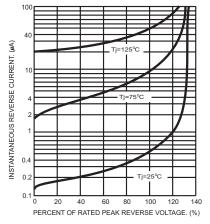














## **Ordering Information**

Device	Packing
(Part Number)-BP	Bulk;1Kpcs/Box

Note: Adding "-HF" suffix for halogen free, eg. Part Number-BP-HF

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