

FRA801G~FRA807G

FAST RECOVERY PLASTIC RECTIFIER

VOLTAGE 50 to 1000 Volt **CURRENT** 8.0 Ampere

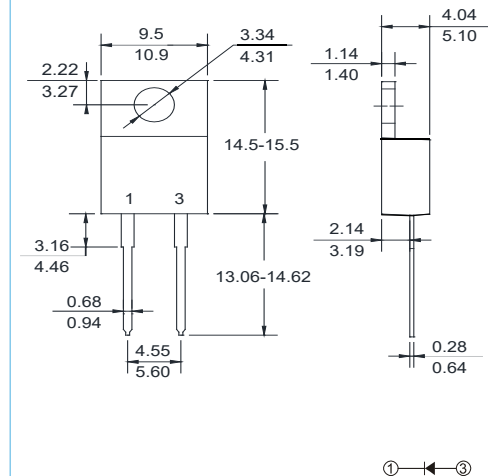
TO-220AC Unit:mm

FEATURES

- High Reliability
- Glass Passivated Junction
- High Surge Current Capability
- Low forward voltage, high current capability.
- Marking:Type number
- Lead free in compliance with EU RoHS

MECHANICAL DATA

- Case Material: Molded Plastic.
- UL Flammability Classification Rating 94V-0



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

PARAMETER	SYMBOL	FRA801G	FRA802G	FRA803G	FRA804G	FRA805G	FRA806G	FRA807G	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Current at See Fig 1	I _{F(AV)}	8							A
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	150							A
Maximum Forward Voltage at 8A (Note 1)	V _F	1.3							V
Maximum DC Reverse Current at Rated DC Blocking Voltage T _J =25°C T _J =125°C	I _R	5 100							μA
Maximum Reverse Recovery Time (Note1)	t _{rr}	150				250	500		ns
Typical Junction Capacitance (Note2)	C _J	60							pF
Typical thermal Resistance	R _{θJC}	3							°C / W
Operating Junction and Storage Temperature Range	T _J , T _{STG}	-55 to +150							°C

NOTES:

1. Reverse Recovery Tset Conditions : $I_F=0.5A, I_R=1A, I_{rr}=0.25A$
2. Measured at 1.0 MHz, $V_R=4.0V$

FRA801G~FRA807G

RATING AND CHARACTERISTIC CURVES

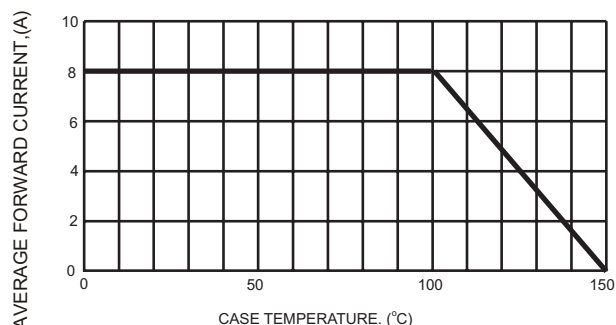


Fig. 1 Forward Current Derating Curve

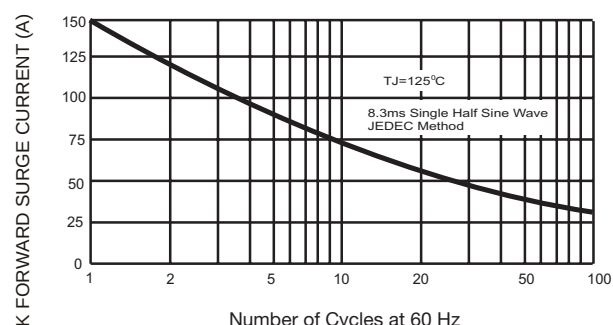


Fig. 2 Surge Current Derating Curve

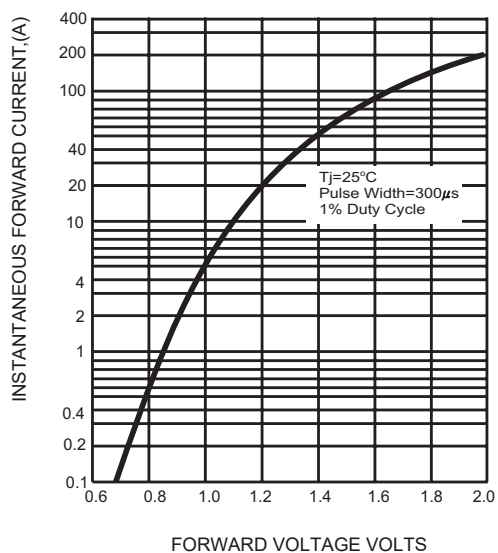


Fig. 3 Typical Forward Characteristics

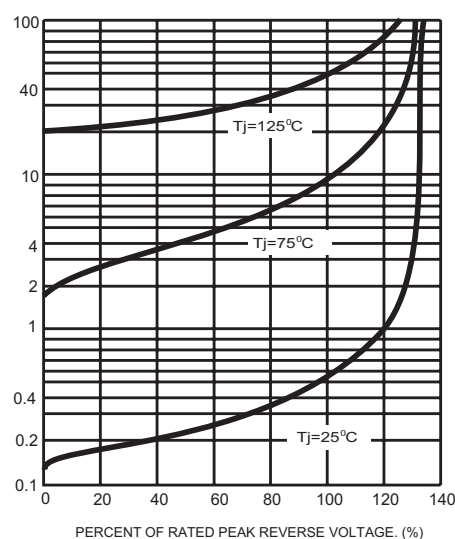


Fig. 4 Typical Reverse Characteristics

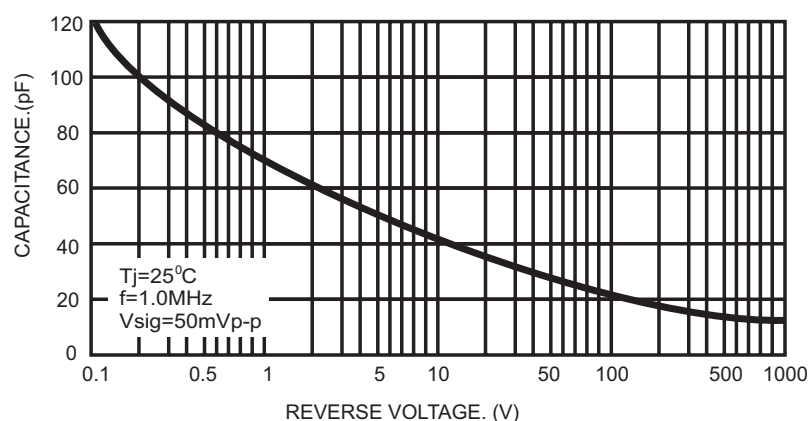


Fig. 5 TYPICAL JUNCTION CAPACITANCE

FRA801G~FRA807G

ORDER INFORMATION

- Packing information

Part Number	Case	DELIVERY MODE	QUANTITY
FRA801G~FRA807G	TO-220AC	Tube	1000/BOX