

FRA801GF~FRA807GF

FAST RECOVERY PLASTIC RECTIFIER

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

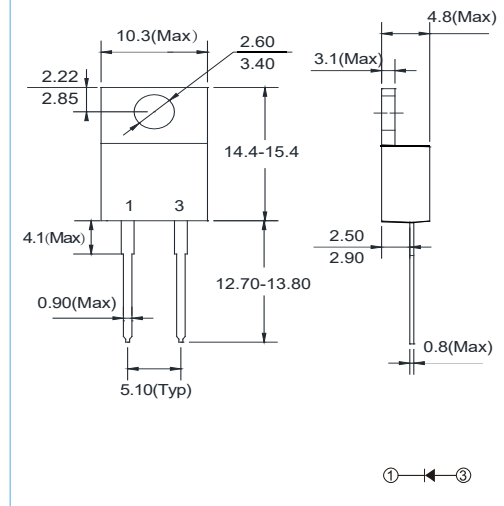
ITO-220AC Unit:mm

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	FRA801GF	FRA802GF	FRA803GF	FRA804GF	FRA805GF	FRA806GF	FRA807GF	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 $T_J=25^{\circ}C$ Blocking Voltage $T_J=125^{\circ}C$	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	$R_{\theta JC}$	3							$^{\circ}C/W$
Operating Junction and Storage Temperature Range	T_J, T_{STG}	-55 to +150							$^{\circ}C$

NOTES:

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

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RATING AND CHARACTERISTIC CURVES

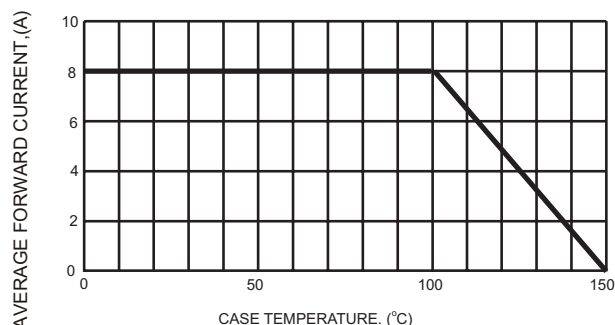


Fig. 1 Forward Current Derating Curve

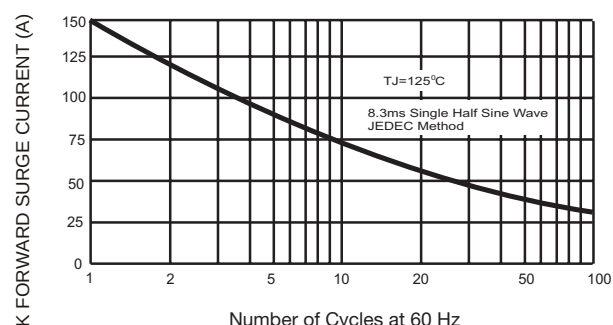


Fig. 2 Surge Current Derating Curve

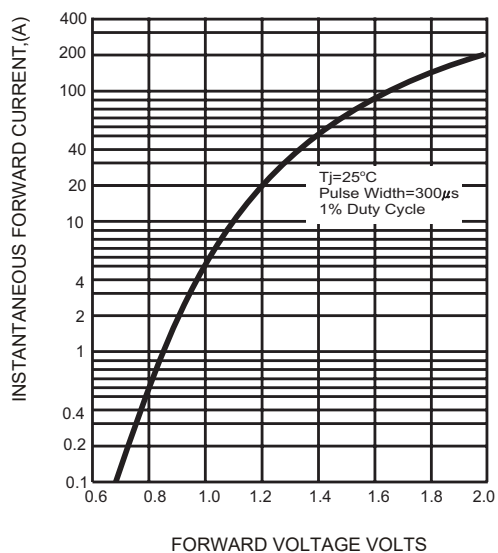


Fig. 3 Typical Forward Characteristics

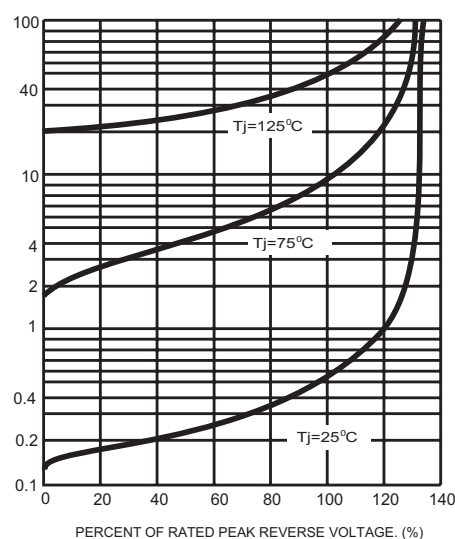


Fig. 4 Typical Reverse Characteristics

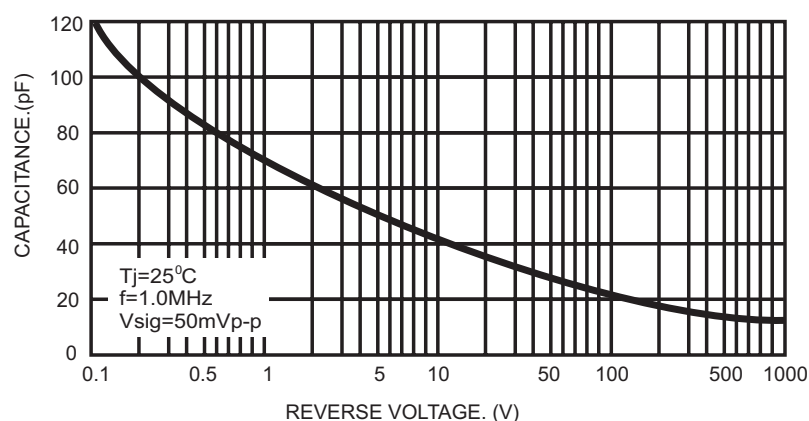


Fig. 5 TYPICAL JUNCTION CAPACITANCE

INSTANTANEOUS REVERSE CURRENT (μA)

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ORDER INFORMATION

- Packing information

Part Number	Case	DELIVERY MODE	QUANTITY
FRA801GF~FRA807GF	ITO-220AC	Tube	1000/BOX