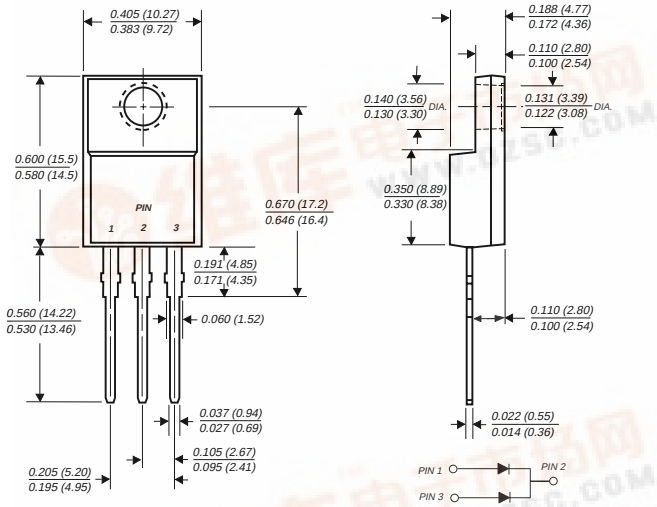
GIF2401 THRU GIF2404

GLASS PASSIVATED PLASTIC RECTIFIER

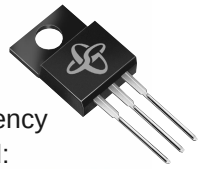
***Reverse Voltage** - 50 to 200 Volts* ***Forward Current** - 16.0 Amperes*

ITO-220AB



Dimensions in inches and (millimeters)

FEATURES



- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Dual rectifier construction, positive centertap
- Glass passivated chip junctions
- Low power loss
- High surge capability
- Superfast recovery times for high efficiency
- High temperature soldering guaranteed: 250°C, 0.25" (6.35mm) from case for 10 seconds

MECHANICAL DATA

Case: JEDEC ITO-220AB molded plastic body over passivated chips
Terminals: Plated lead solderable per MIL-STD-750, Method 2026
Polarity: As marked
Mounting Position: Any
Weight: 0.08 ounce, 2.24 grams
Mounting Torque: 5 in. - lbs. max.

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

	SYMBOLS	GIF2401	GIF2402	GIF2403	GIF2404	UNITS
Maximum recurrent peak reverse voltage	V_{RRM}	50	100	150	200	Volts
Maximum RMS voltage	V_{RMS}	35	70	105	140	Volts
Maximum DC blocking voltage	V_{DC}	50	100	150	200	Volts
Maximum average forward rectified current at T_C=125°C	$I_{(AV)}$	16.0				Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method) at T_C=125°C	I_{FSM}	125.0				Amps
Maximum instantaneous forward voltage per leg at: I_F=4A, T_J=25°C I_F=8A, T_J=25°C I_F=4A, T_J=100°C I_F=8A, T_J=100°C	V_F	0.975 0.900 0.800 0.895				Volts
Maximum DC reverse current at rated DC blocking voltage T_C=25°C T_C=100°C	I_R	50.0 150.0			5.0 500.0	µA
Maximum reverse recovery time per leg (NOTE1)	t_{rr}	35.0				ns
Typical junction capacitance per leg (NOTE 2)	C_J	85.0				pF
Typical thermal resistance (NOTE 3)	$R_{\Theta JC}$	5.0				°C/W
Operating junction and storage temperature range	T_J, T_{STG}	-65 to +150				°C

NOTES:
(1) Reverse recovery test conditions: I_F=0.5A, I_R=1.0A, I_{rr}=0.25A
(2) Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts

RATINGS AND CHARACTERISTICS CURVES GIF2401 THRU GIF2404

FIG. 1 -FORWARD CURRENT DERATING CURVE

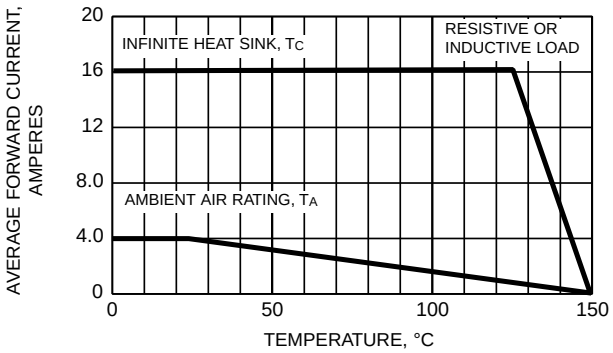


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG

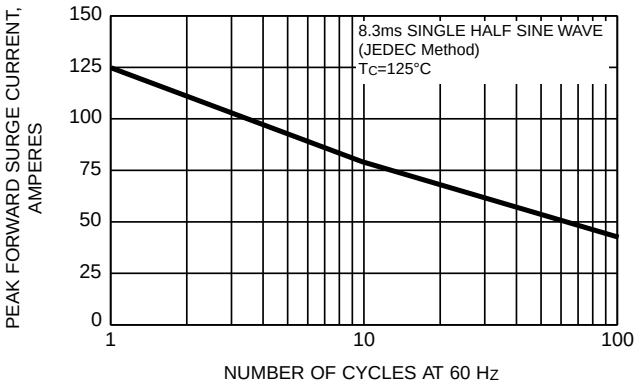


FIG. 4 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER LEG

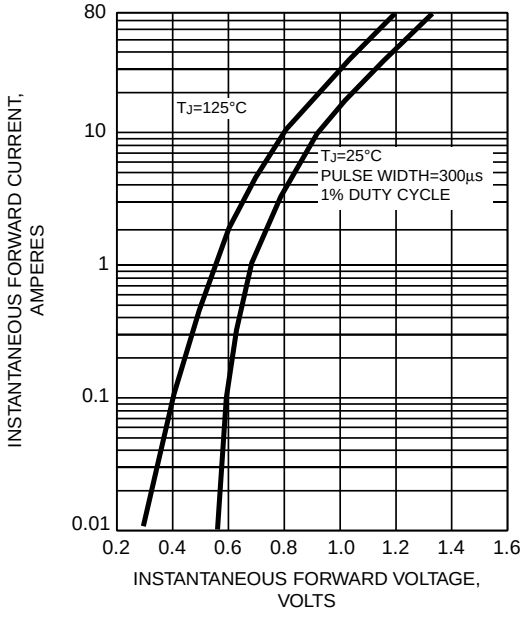


FIG.3 -TYPICAL REVERSE CHARACTERISTICS PER LEG

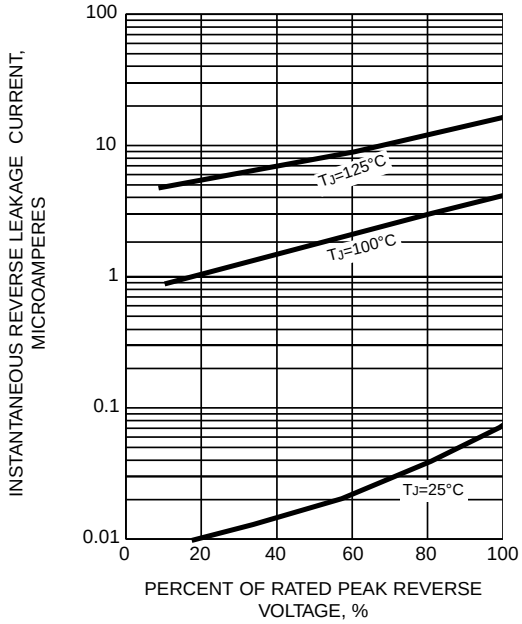


FIG. 5 - TYPICAL JUNCTION CAPACITANCE PER LEG