



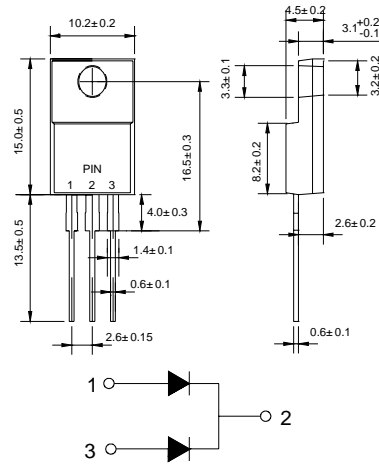
## ITO-220AB

### Features

- ✧ Low switching losses, high efficiency
- ✧ Low forward voltage drop
- ✧ High ESD tolerance: 18KV (IEC61000-4-2, Human Body)
- ✧ Ultrafast recovery times
- ✧ Solder Dip 260°C, 10 seconds
- ✧ The plastic material carries U/L recognition 94V-0
- ✧ Component in accordance to RoHS 2002/95/EC and WEEE 2002/96/EC

### Mechanical Data

- ✧ **Case:** JEDEC ITO-220AB, molded plastic over
- ✧ **Terminals:** Matte tin plated leads
- ✧ **Polarity:** As marked
- ✧ **Weight:** 0.06 ounce, 1.67 gram
- ✧ **Mounting Position:** Any



Dimensions in millimeters

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate by 20%.

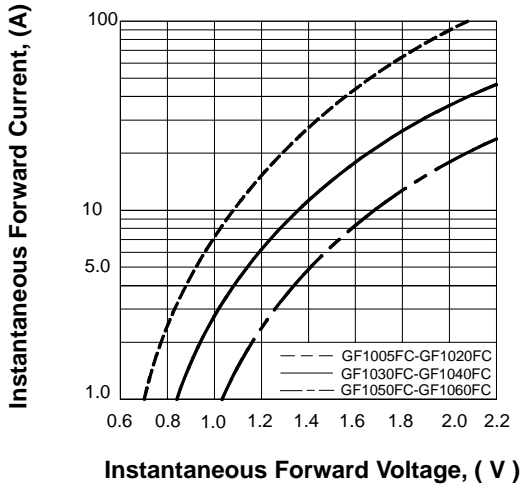
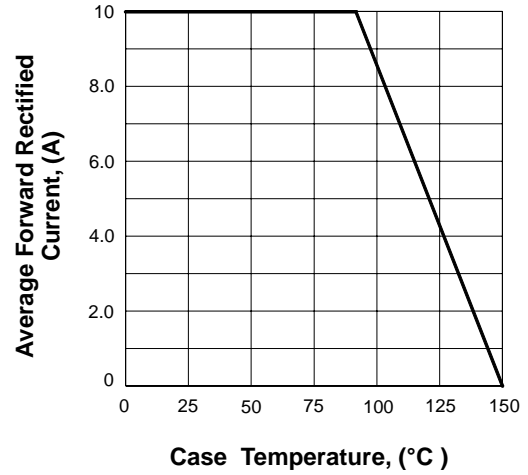
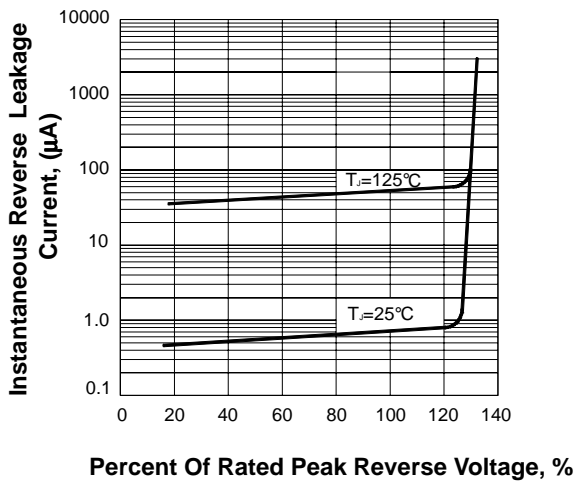
Parameter	Symbol	GF10 05FC	GF10 10FC	GF10 20FC	GF10 30FC	GF10 40FC	GF10 50FC	GF10 60FC	UNITS
Maximum recurrent peak reverse voltage	$V_{RRM}$	50	100	200	300	400	500	600	V
Maximum RMS voltage	$V_{RMS}$	35	70	140	210	280	350	420	V
Maximum DC blocking voltage	$V_{DC}$	50	100	200	300	400	500	600	V
Maximum average forward rectified current @ $T_C=95^\circ\text{C}$ (Note 1)	$I_{(AV)}$	10							A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load @ $T_J=125^\circ\text{C}$	$I_{FSM}$	80							A
Maximum instantaneous forward voltage at 5.0A (Note 2)	$V_F$	0.98		1.3		1.7		V	
Maximum DC reverse current @ $T_A=25^\circ\text{C}$ at rated DC blocking voltage @ $T_A=125^\circ\text{C}$	$I_R$	5.0				150			$\mu\text{A}$
Maximum reverse recovery time (Note 3)	$t_{rr}$	30							ns
Operating junction temperature range	$T_J$	-55---+150							$^\circ\text{C}$
Storage temperature range	$T_{STG}$	-55---+150							$^\circ\text{C}$

**NOTES:** 1. Averaged over any 20ms period.

2. Pulse test: 300 $\mu\text{s}$  pulse width, 1% duty cycle.

3. Measured with  $I_F=0.5\text{A}$ ,  $I_R=1\text{A}$ ,  $I_{rr}=0.25\text{A}$ .

## Ratings AND Characteristic Curves

**FIG.1 TYPICAL FORWARD CHARACTERISTICS**

**FIG.2 FORWARD DERATING CURVE**

**FIG.3 TYPICAL REVERSE CHARACTERISTICS**

**FIG.4 PEAK FORWARD SURGE CURRENT**
