

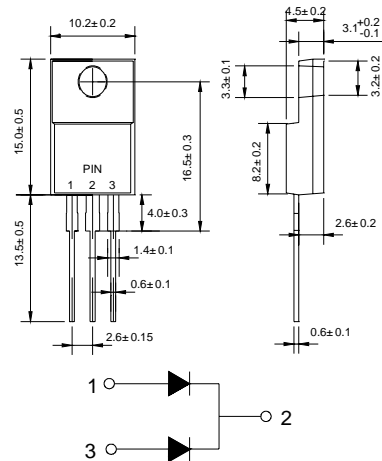
ITO-220AB

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%.

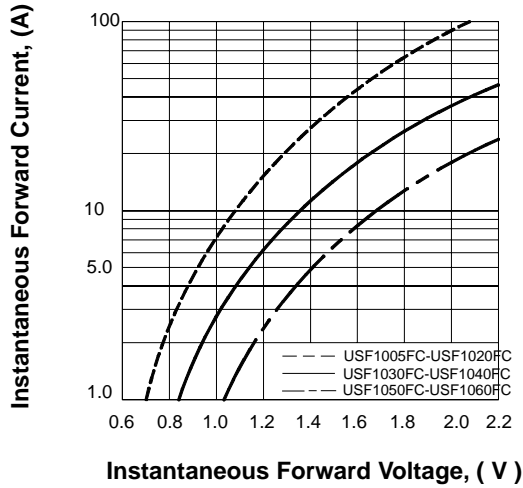
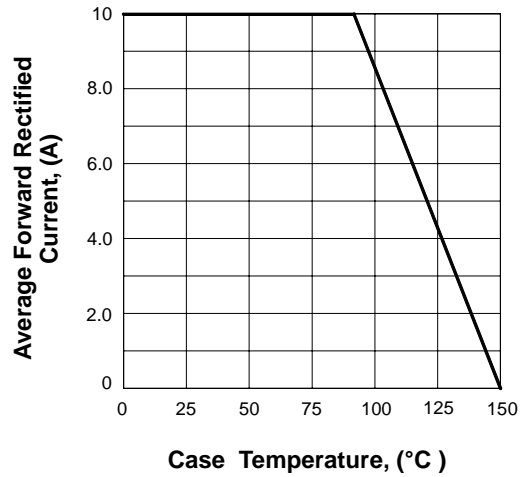
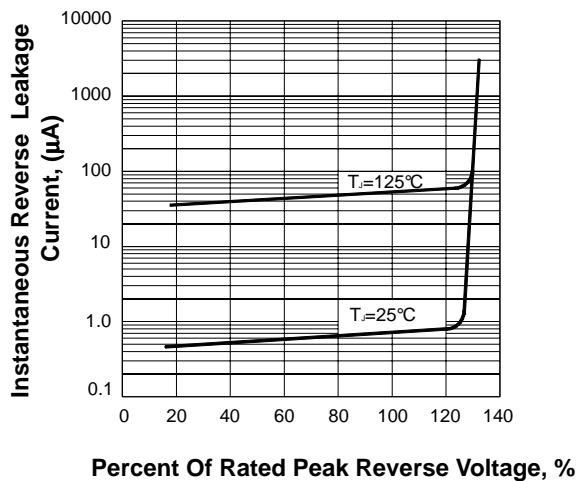
Parameter	Symbol	USF10 05FC	USF10 10FC	USF10 20FC	USF10 30FC	USF10 40FC	USF10 50FC	USF10 60FC	UNITS
Maximum recurrent peak reverse voltage	V_{RRM}	50	100	200	300	400	500	600	V
Maximum RMS voltage	V_{RMS}	35	70	140	210	280	350	420	V
Maximum DC blocking voltage	V_{DC}	50	100	200	300	400	500	600	V
Maximum 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							μA
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 μs 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
