



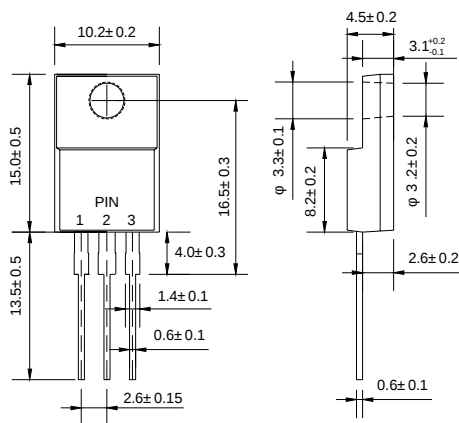
ITO-220AB

Features

- ◇ Low cost
- ◇ Diffused junction
- ◇ Low leakage
- ◇ Low forward voltage drop
- ◇ High current capability
- ◇ Easily cleaned with Freon, Alcohol, Isopropanol and similar solvents
- ◇ The plastic material carries U/L recognition 94V-0

Mechanical Data

- ◇ Case: JEDEC ITO-220AB, molded plastic
- ◇ Polarity: Color band denotes cathode
- ◇ Weight: 0.06 ounces, 1.67 grams
- ◇ Mounting position: Any



Dimensions in millimeters

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

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

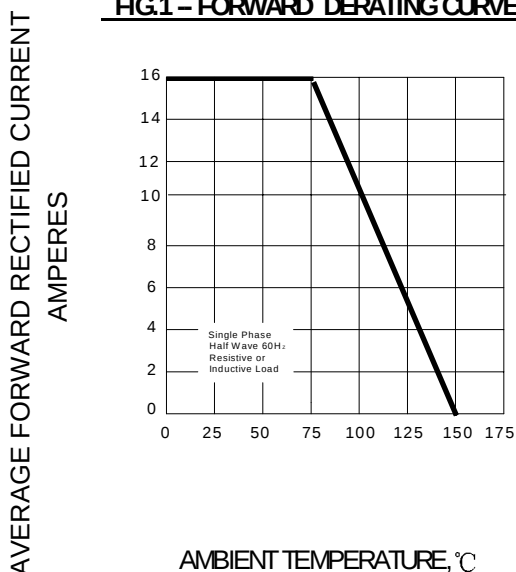
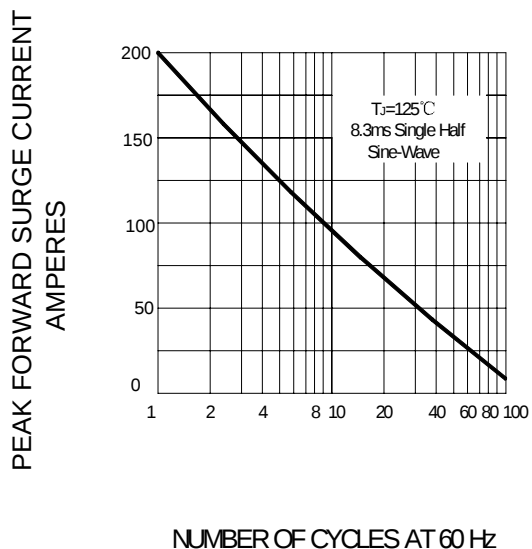
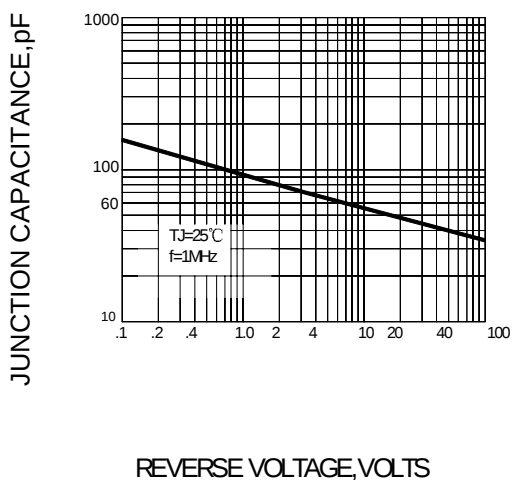
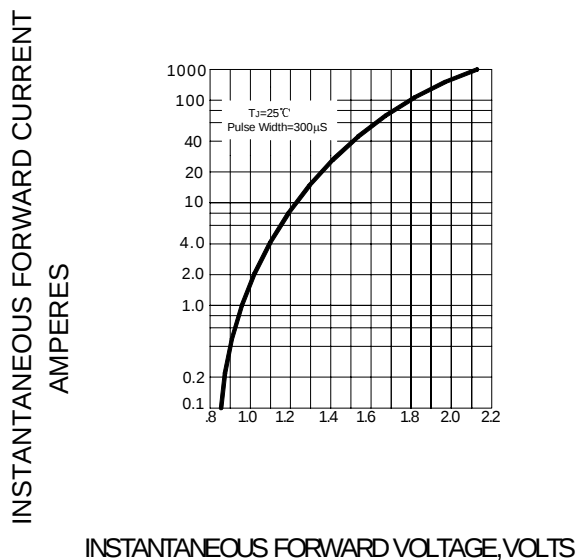
		FR 1610FC	FR 1620FC	FR 1640FC	FR 1660FC	UNITS
Maximum recurrent peak reverse voltage	V_{RRM}	100	200	400	600	V
Maximum RMS voltage	V_{RMS}	70	140	280	420	V
Maximum DC blocking voltage	V_{DC}	100	200	400	600	V
Maximum average forward rectified current @ $T_A = 75^\circ\text{C}$	$I_{F(AV)}$	16				A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load @ $T_J = 125^\circ\text{C}$	I_{FSM}	200				A
Maximum instantaneous forward voltage @ 8.0 A	V_F	1.3				V
Maximum reverse current @ $T_A = 25^\circ\text{C}$ at rated DC blocking voltage @ $T_A = 100^\circ\text{C}$	I_R	10 150				μA
Maximum reverse recovery time (Note1)	t_{rr}	150			250	ns
Typical junction capacitance (Note2)	C_J	65				pF
Typical thermal resistance (Note3)	$R_{\theta JA}$	3.0				$^\circ\text{C}/\text{W}$
Operating junction temperature range	T_J	- 55 --- +150				$^\circ\text{C}$
Storage temperature range	T_{STG}	- 55 --- + 150				$^\circ\text{C}$

NOTE: 1. Measured with $I_F = 0.5\text{A}$, $I_R = 1\text{A}$, $t_{rr} = 0.25\text{A}$.

2. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

3. Thermal resistance from junction to ambient.

Ratings AND Characteristic Curves

FIG.1 – FORWARD DERATING CURVE

FIG.2-PEAK FORWARD SURGE CURRENT

FIG.3-TYPICAL JUNCTION CAPACITANCE

FIG.4 –TYPICAL FORWARD CHARACTERISTIC

FIG.5 – REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM
