

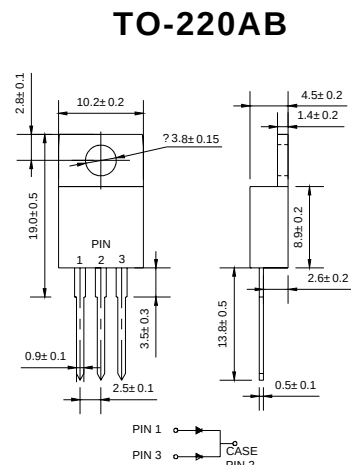


Super Fast Rectifiers

CURRENT: 16 A

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

- ◇ Case: JEDEC TO-220AB, molded plastic
- ◇ Polarity: As marked
- ◇ Weight: 0.071 ounce, 2.006 grams
- ◇ Mounting position: Any



Dimensions in millimeters

Ratings at 25°C ambient temperature unless otherwise specified.

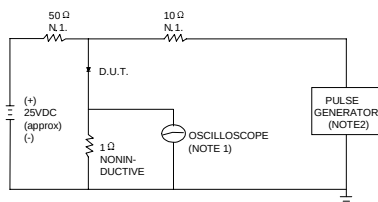
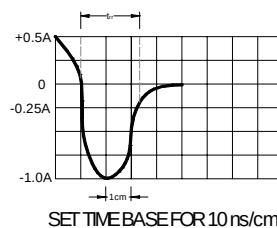
Ratings at 25°C ambient temperature unless otherwise specified.

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

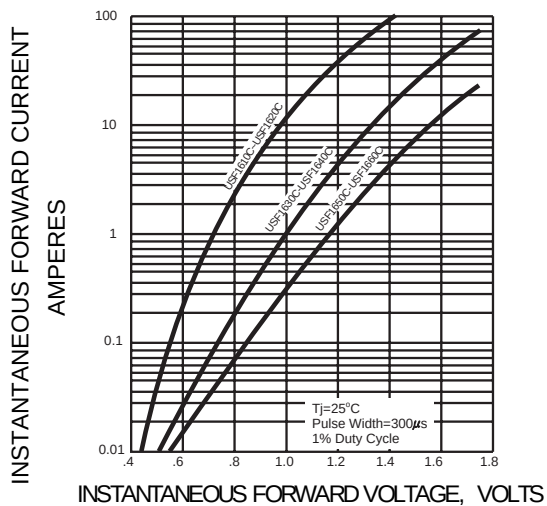
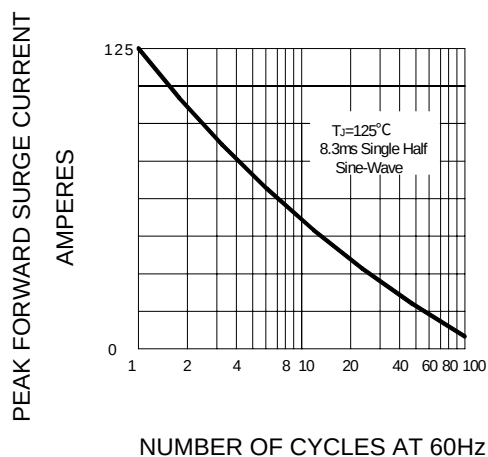
		USF 1610C	USF 1620C	USF 1630C	USF 1640C	USF 1650C	USF 1660C	UNITS
Maximum recurrent peak reverse voltage	V_{RRM}	100	200	300	400	500	600	V
Maximum RMS voltage	V_{RMS}	70	140	210	280	350	420	V
Maximum DC blocking voltage	V_{DC}	100	200	300	400	500	600	V
Maximum average forward rectified current @ $T_c=100^{\circ}C$	$I_{F(AV)}$	16						A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load @ $T_j=125^{\circ}C$	I_{FSM}	125						A
Maximum instantaneous forward voltage @ 8.0A	V_F	0.98		1.3		1.7		V
Maximum reverse current @ $T_A=25^{\circ}C$ at rated DC blocking voltage @ $T_A=150^{\circ}C$	I_R	5.0 250		10 500				μA
Maximum reverse recovery time (Note1)	t_{rr}	25						ns
Operating junction temperature range	T_j	- 55 ----- + 150						$^{\circ}C$
Storage temperature range	T_{STG}	- 55 ----- + 150						$^{\circ}C$

NOTE: 1. Measured with $I_F=0.5A$, $I_P=1A$, $I_{rr}=0.25A$.

Ratings AND Characteristic Curves

FIG.1 – TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC


NOTES: 1. RISE TIME = 7ns MAX. INPUT IMPEDANCE = 1MΩ. 22pF.
2. RISE TIME = 10ns MAX. SOURCE IMPEDANCE = 50 Ω.

FIG.2 – TYPICAL FORWARD CHARACTERISTIC

FIG.3 – PEAK FORWARD SURGE CURRENT

FIG.4-FORWARD DERATING CURVE
