

ULTRA FAST RECTIFIERS

VOLTAGE RANGE: 50 --- 600V

CURRENT: 8.0A

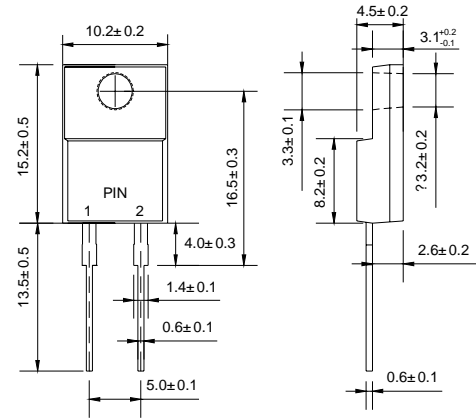
FEATURES

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

MECHANICAL DATA

- Case: JEDEC ITO-220AC
- Terminals: solderable per MIL-STD-202, Method 208
- Polarity: Color band denotes cathode
- Weight: 0.064 ounces, 1.81 gram
- Mounting position: Any

ITO-220AC



Dimensions in millimeters

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 ambient temperature unless otherwise specified.
Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate by 20%.

		MUR 805F	MUR 810F	MUR 815F	MUR 820F	MUR 830F	MUR 840F	MUR 860F	UNITS
Device marking code		U805F	U810F	U815F	U820F	U830F	U840F	U860F	
Maximum recurrent peak reverse voltage	V_{RRM}	50	100	150	200	300	400	600	V
Maximum RMS voltage	V_{RMS}	35	70	105	140	210	280	420	V
Maximum DC blocking voltage	V_{DC}	50	100	150	200	300	400	600	V
Maximum average forward rectified current total device (rated V_R), $T_C=150$	$I_{(AV)}$	8.0							A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load	I_{FSM}	100							A
Maximum instantaneous forward voltage (Note1) @ $I_F=8.0A, T_C=25$ $I_F=8.0A, T_C=150$	V_F		0.975 0.895			1.30 1.00	1.50 1.20		V
Maximum reverse current at rated DC blocking voltage @ $T_j=25$ $T_j=150$	I_R		5.0 250			10 500			μA
Maximum reverse recovery time (Note2) (Note3)	t_{rr}		25 35			50 60			ns
Typical thermal resistance junction to case	$R_{\theta JC}$		3.0			2.0			/W
Operating junction temperature range	T_j	- 65 ---- + 175							
Storage temperature range	T_{STG}	- 65 ---- + 175							

NOTE:1. Pulse test: pulse width=300 μs , duty cycle 2.0%

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

3. Measured with $I_F=1.0A, di/dt=50A/\mu s$.

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FIG.1 –TYPICAL FORWARD CHARACTERISTIC

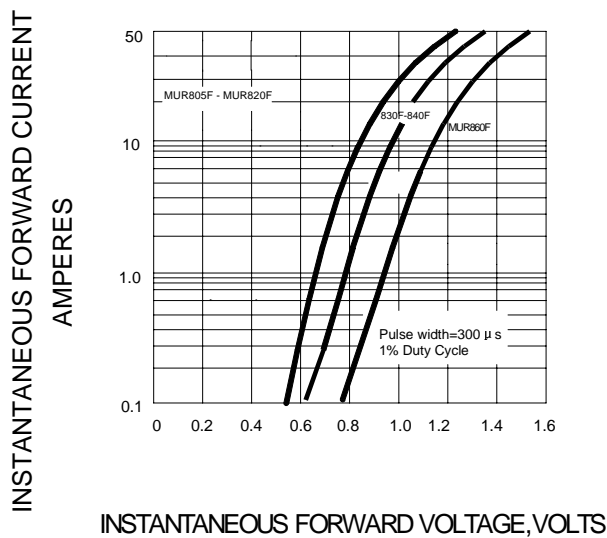


FIG.2–TYPICAL REVERSE CHARACTERISTICS

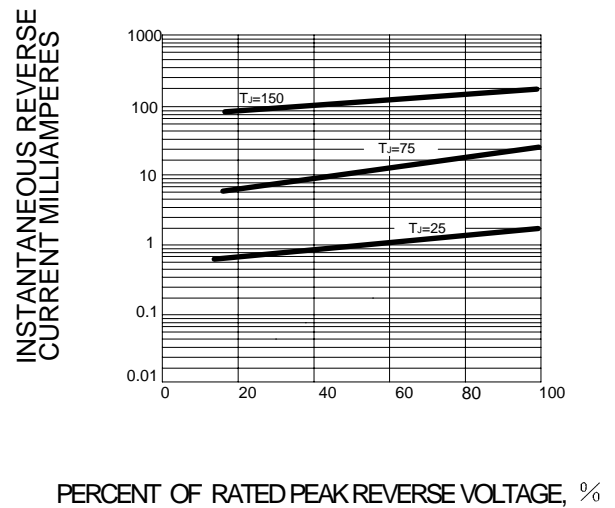


FIG.3 – PEAK FORWARD SURGE CURRENT

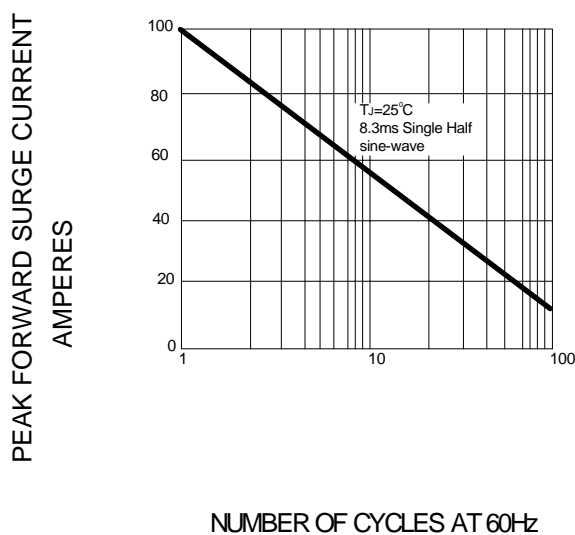


FIG.4 – FORWARD DERATING CURVE

