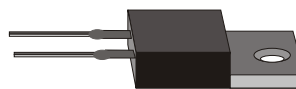


VOLTAGE RANGE: 50 - 600V

CURRENT: 8.0A



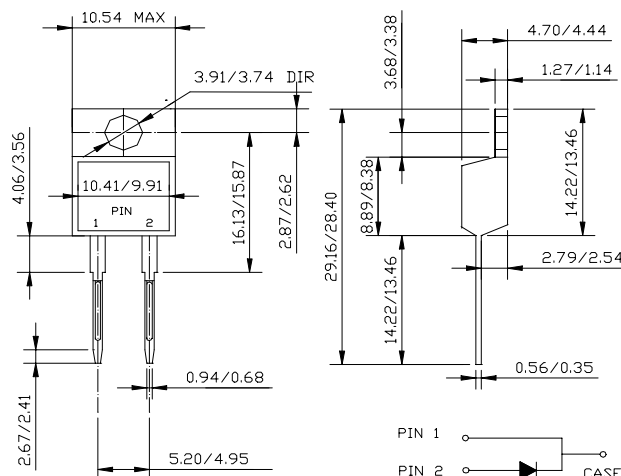
TO - 220AC

Features

- Low cost
- Diffused junction
- Glass passivated junction
- Low forward voltage drop
- High current capability
- Easily cleaned with Alcohol, Isopropanol and similar solvents

Mechanical Data

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



Maximum Ratings and Electrical Characteristics $T_A = 25^\circ\text{C}$ unless otherwise specified

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

Characteristic	Symbol	MUR 805	MUR 810	MUR 815	MUR 820	MUR 840	MUR 860	Unit
Maximum recurrent peak reverse voltage	V _{RRM}	50	100	150	200	400	600	V
Maximum RMS voltage	V _{RMS}	35	70	105	140	280	420	V
Maximum DC blocking voltage	V _{DC}	50	100	150	200	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 _{θJC}	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 $\leq 2.0\%$

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

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

FIG.1 –TYPICAL FORWARD CHARACTERISTIC

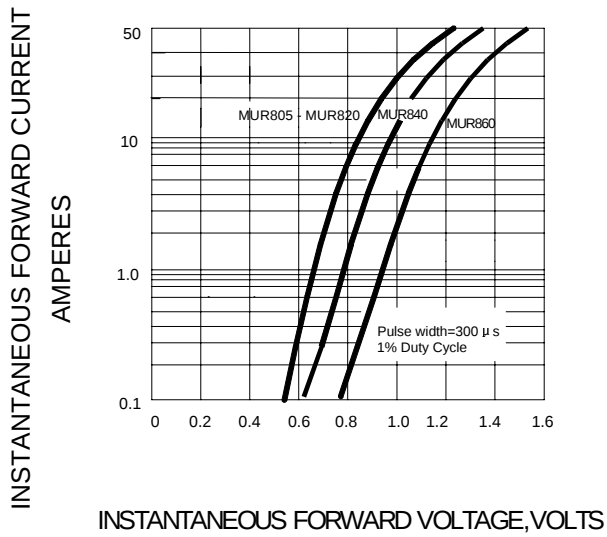


FIG.2 –TYPICAL REVERSE CHARACTERISTICS

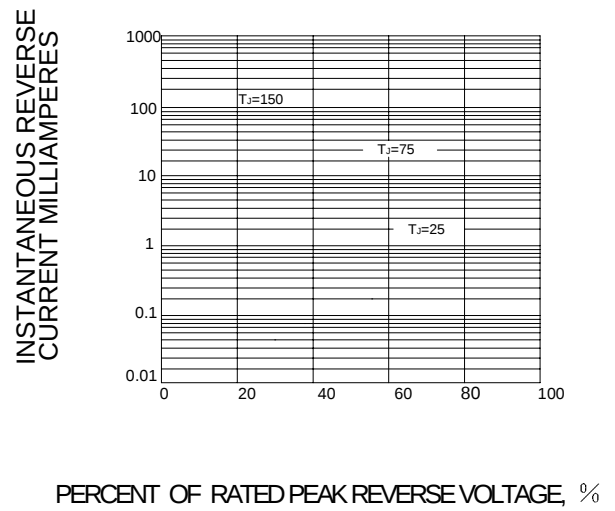


FIG.3 – PEAK FORWARD SURGE CURRENT

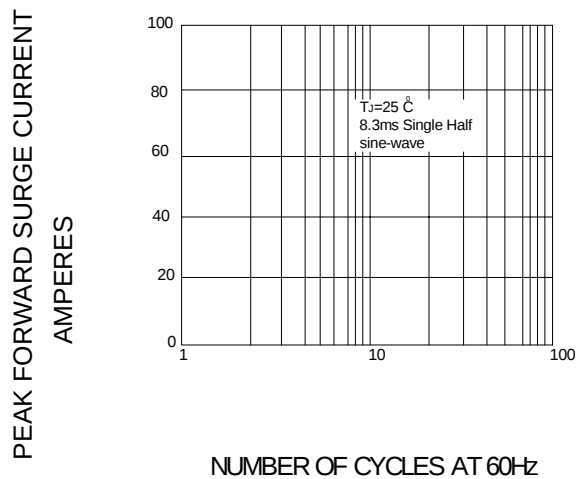


FIG.4 – FORWARD DERATING CURVE

