



VOLTAGE RANGE: 50 --- 600V

FOREARD CURRENT: 8.0A

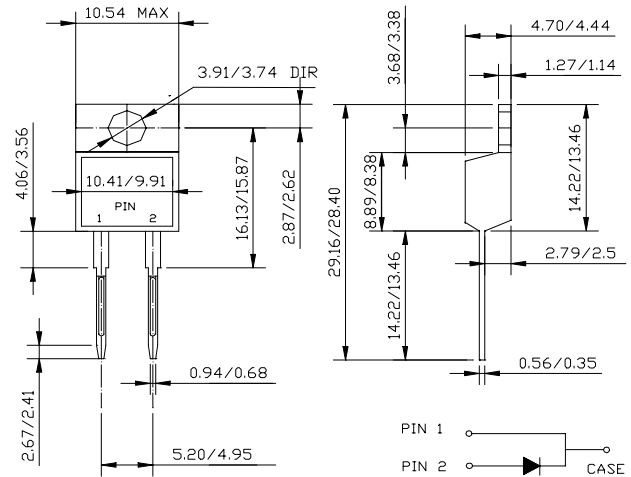
Features

- 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 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

TO - 220AC



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%

Parameter	Symbol	MUR 805	MUR 810	MUR 815	MUR 820	MUR 830	MUR 840	MUR 860	UNITS
Device marking code		U805	U810	U815	U820	U830	U840	U860	
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 @ $T_j=25$ at rated DC blocking voltage $T_j=150$	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 $I_F=1.0A, di/dt=50A/\mu s$.



Ratings AND Characteristic Curves

FIG.1 –TYPICAL FORWARD CHARACTERISTIC

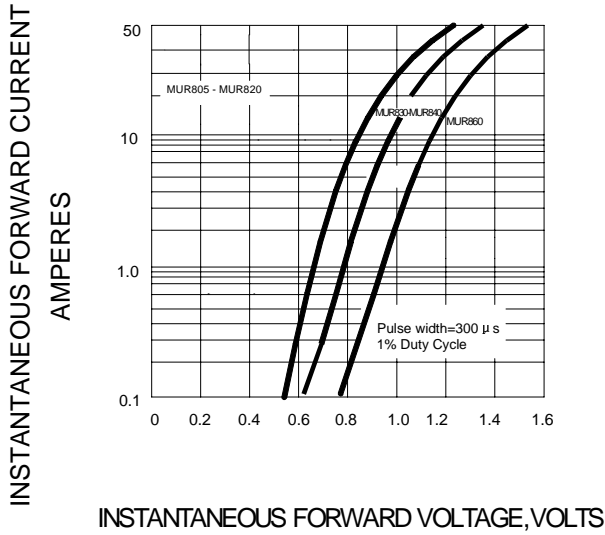


FIG.2–TYPICAL REVERSE CHARACTERISTICS

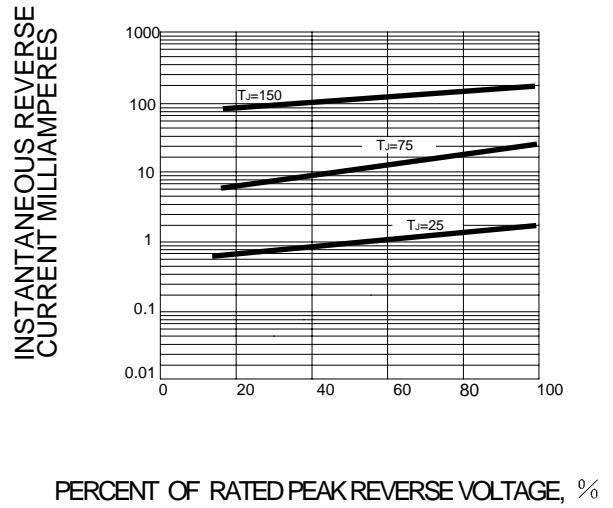


FIG.3 – PEAK FORWARD SURGE CURRENT

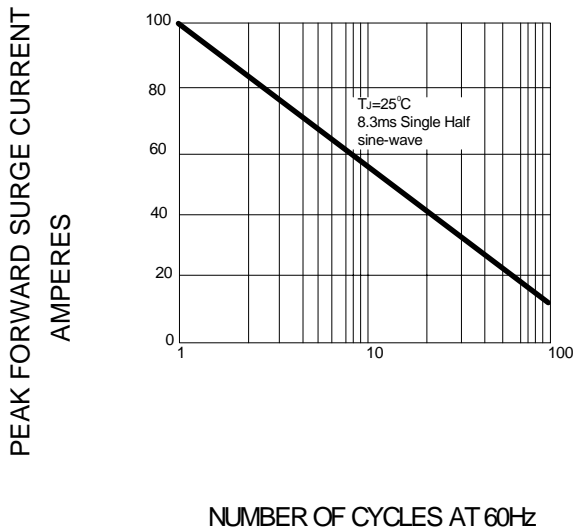
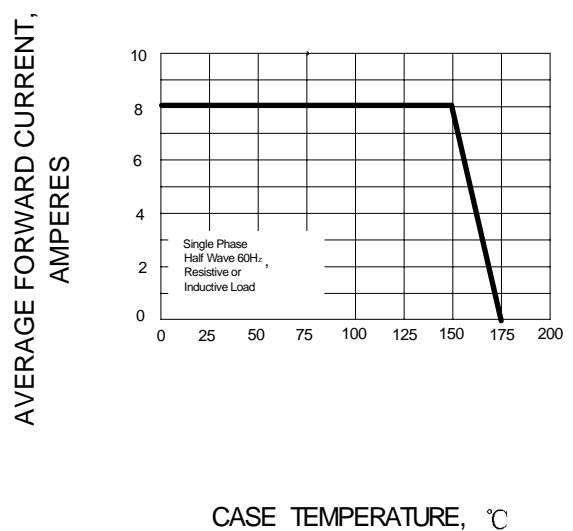


FIG.4 – FORWARD DERATING CURVE



PACKAGE	PCS/TUBE	CARTON	CARTON	CARTON	CARTON
TO-220	50	5000	57*22*18	13	NW/KG 9