

VOLTAGE RANGE: 50-600V

CURRENT: 16A

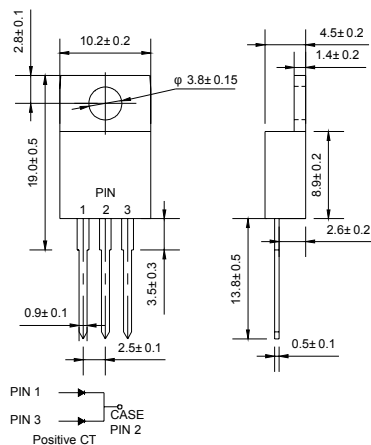
TO-220AB

Features

- Low cost
- Diffused junction
- 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

Mechanical Data

- Case: JEDEC TO-220AB, molded plastic
- Polarity: Color band denotes cathode
- Weight: 0.071ounce, 2.006 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%.

		MUR 1605CT	MUR 1610CT	MUR 1615CT	MUR 1620CT	MUR 1640CT	MUR 1660CT	UNITS
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 @T _C =150	I _(AV)	8.0 16						A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load	I _{FSM}	100						A
Maximum instantaneous forward voltage	V _F	0.975 0.895				1.30 1.00	1.50 1.20	V
Maximum reverse current at rated DC blocking voltage	I _R	5.0 250				10 500		µA
Maximum reverse recovery time (Note2)	t _{rr}	25				50		ns
Typical thermal resistance junction to case	R _{θJC}	3.0				2.0		/W
Operating junction temperature range	T _j	- 55 ---- + 175						
Storage temperature range	T _{STG}	- 55 ---- + 175						

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

2. Measured with $I_F=0.5A$, $I_R=1.0A$, $I_{rr}=0.25A$.

Ratings AND Characteristic Curves

FIG.1 –TYPICAL FORWARD CHARACTERISTIC

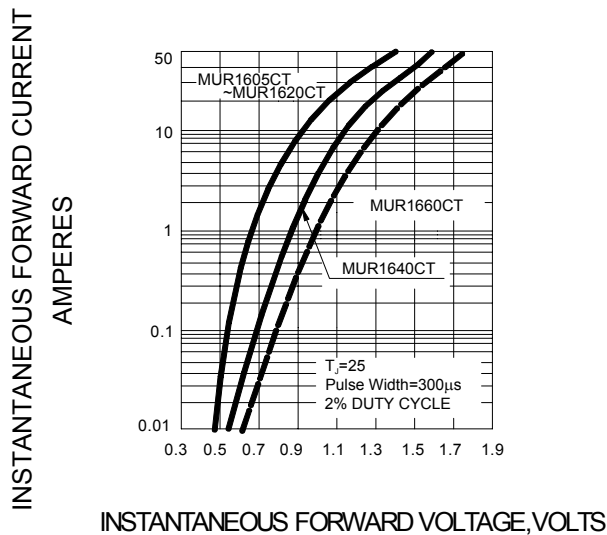


FIG.2 –TYPICAL REVERSE CHARACTERISTICS

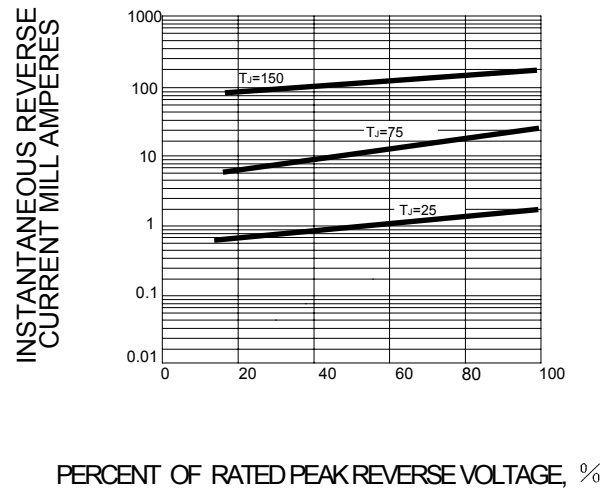


FIG.3 – PEAK FORWARD SURGE CURRENT

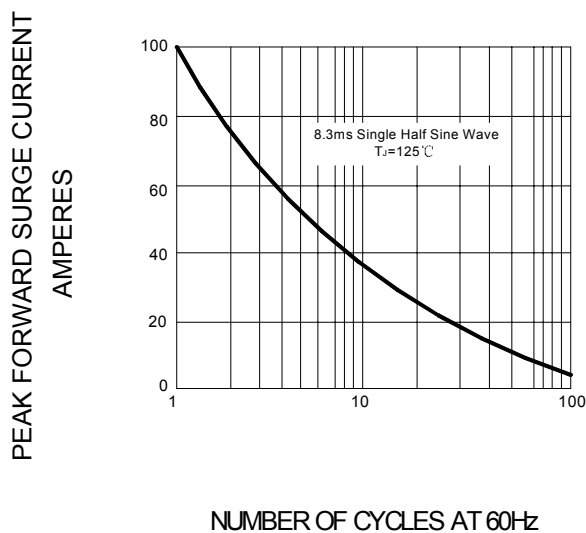
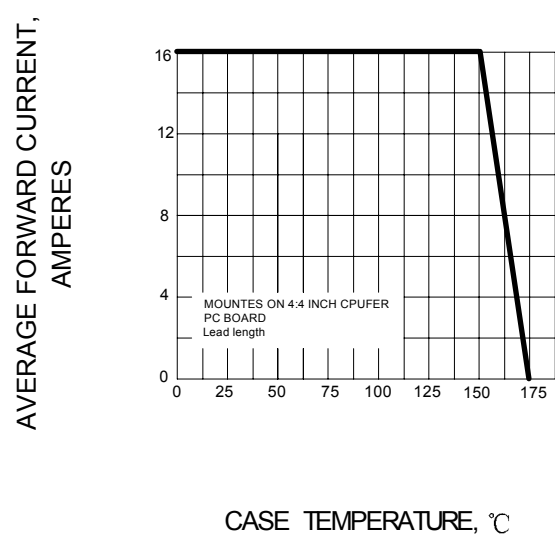


FIG.4 – FORWARD DERATING CURVE



Package	Packing	Box Size L×W×H(mm)	Quatity(pcs/box)	Carton Size L×W×H(mm)	Quatity(pcs/carton)
TO-220	50pcs/Tube	558×148×38	1000	565×225×175	5000