

ULTRA FAST RECTIFIERS

VOLTAGE RANGE: 50-600V

CURRENT: 16A

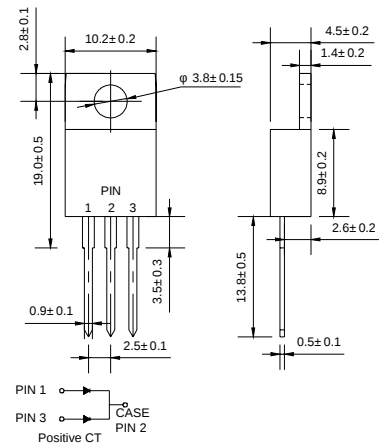
FEATURES

- 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
- Terminals: Solderable per MIL-STD-202, Method 208
- Polarity: Color band denotes cathode
- Weight: 0.071ounce, 2.006 grams
- Mounting position: Any

TO-220AB



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 1605C	MUR 1610C	MUR 1615C	MUR 1620C	MUR 1640C	MUR 1660C	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 @ 8.0A, $T_j=25$	V_F	0.975						V
forward voltage @ 8.0A, $T_j=150$		0.895						
Maximum reverse current @ $T_C=25$	I_R	5.0						μA
at rated DC blocking voltage @ $T_C=150$		250						
Maximum reverse recovery time (Note2)	t_{rr}	25						ns
Typical thermal resistance junction to case	$R_{\theta JC}$	3.0						/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 $I_F=0.5A$, $I_R=1.0A$, $I_{rr}=0.25A$.

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FIG.1 –TYPICAL FORWARD CHARACTERISTIC

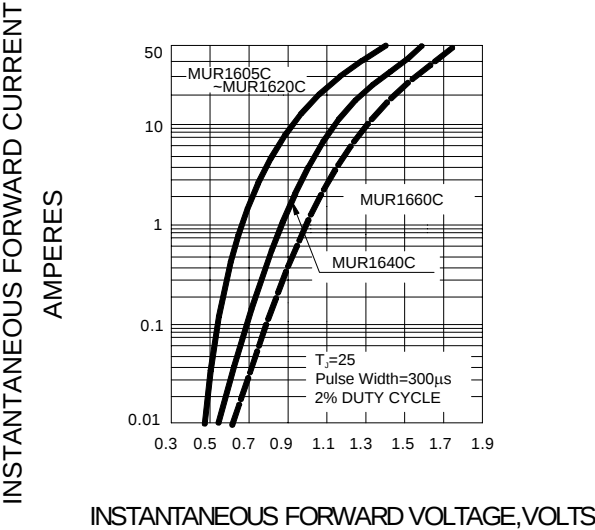


FIG.2 – TYPICAL REVERSE CHARACTERISTICS

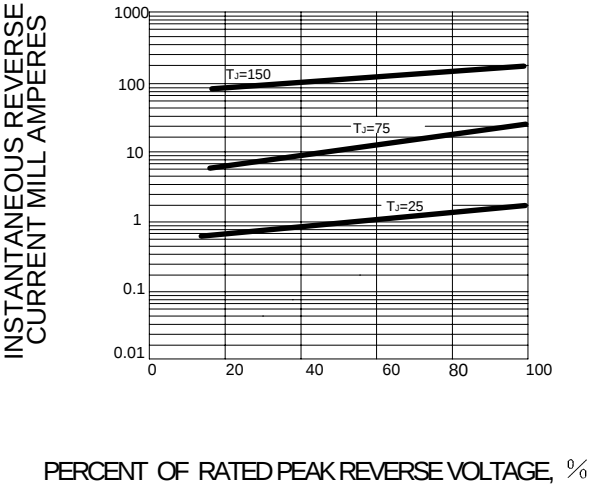


FIG.3 – PEAK FORWARD SURGE CURRENT

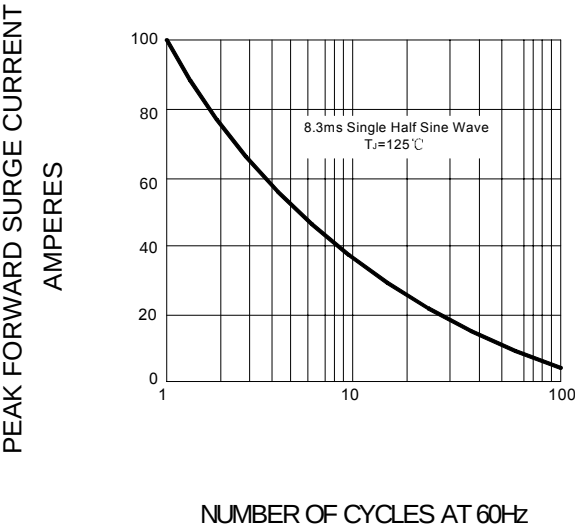


FIG.4 – FORWARD DERATING CURVE

