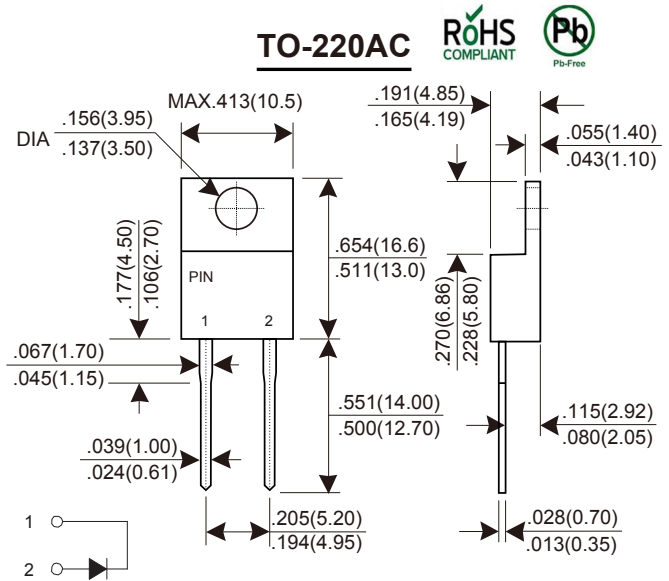


Features

- Fast switching for high efficiency
- Low forward voltage drop
- High current capability
- Low reverse leakage current
- High surge current capability

Mechanical Data

- Case: Molded plastic, TO-220AC
- Epoxy: UL 94V-0 rate flame retardant
- Terminals: Solderable per MIL-STD-202, method 208
- Polarity: As marked
- Mounting position: Any



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

PARAMETER	SYMBOL	MUR810	MUR815	MUR820	MUR840	MUR860	UNIT
Maximum repetitive peak reverse voltage	V_{RRM}	100	150	200	400	600	V
Maximum RMS voltage	V_{RMS}	70	105	140	280	420	V
Maximum DC blocking voltage	V_{DC}	100	150	200	400	600	V
Maximum average forward rectified current @ $T_C=87.5^\circ\text{C}$	$I_{F(AV)}$	8.0					A
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	I_{FSM}	125					A
Maximum instantaneous forward voltage @ $I_F=8.0\text{A}$	V_F	0.95		1.25		1.7	V
Maximum DC reverse current @ $T_A=25^\circ\text{C}$ at rated DC blocking voltage @ $T_A=125^\circ\text{C}$	I_R	10 500					μA
Maximum reverse recovery time (Note 1)	t_{rr}	35			50		ns
Typical thermal resistance from junction to case	$R_{\theta JC}$	2					$^\circ\text{C/W}$
Operating junction and storage temperature range	T_J, T_{STG}	-55 to +150					$^\circ\text{C}$

 NOTES : (1) Reverse recovery test conditions $I_F = 0.5\text{A}$, $I_R = 1.0\text{A}$, $I_{rr} = 0.25\text{A}$.



Typical Characteristics

Fig.1 - Forward Current Derating Curve

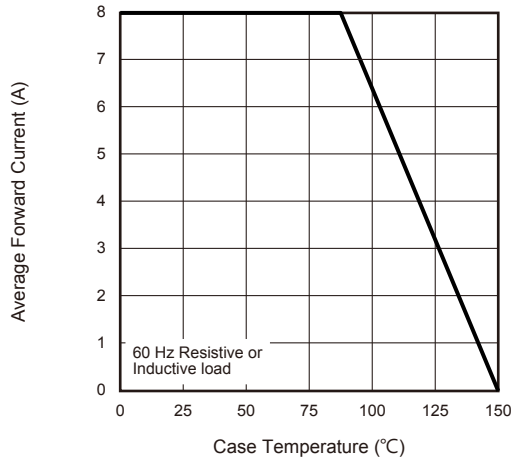


Fig.2 - Maximum Non-Repetitive Peak Forward Surge Current

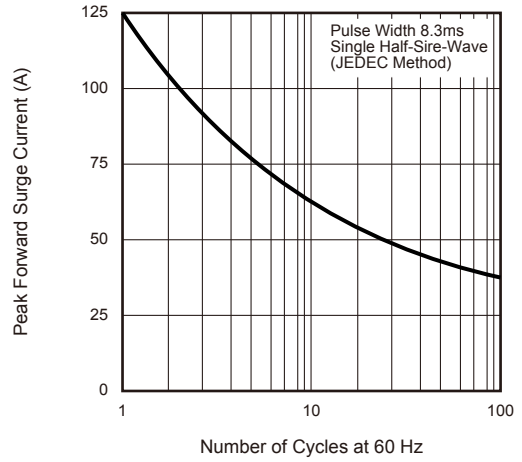


Fig.3 - Typical Instantaneous Forward Characteristics

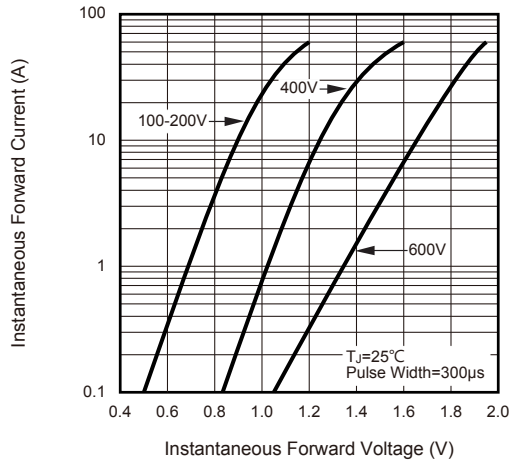
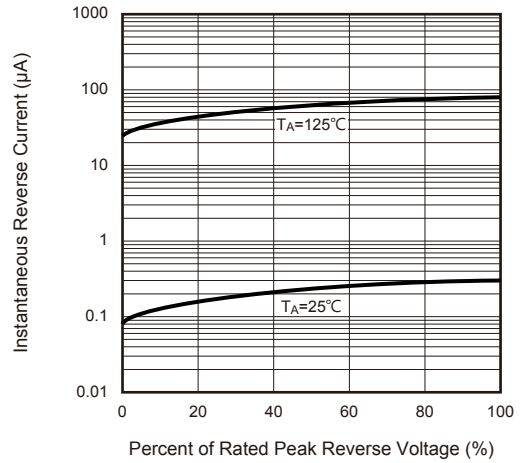


Fig.4 - Typical Reverse Leakage Characteristics



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