



MUR1610CT THRU MUR1660CT

Efficient Fast Recovery Rectifier

Features

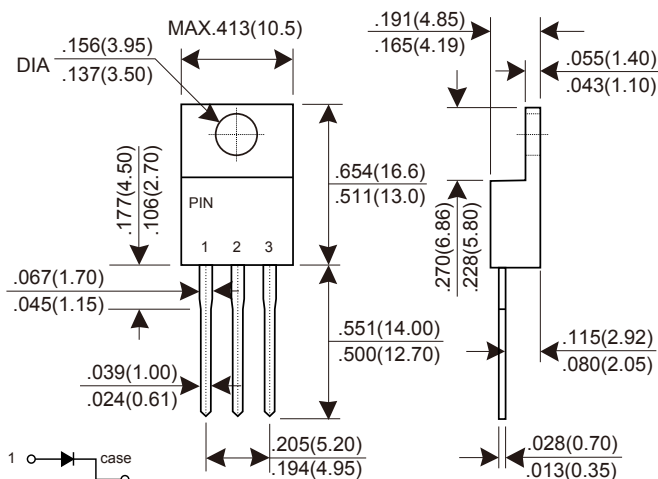
- * Fast switching for high efficiency
- * Low forward voltage drop
- * High current capability
- * Low reverse leakage current
- * High surge current capability

Mechanical Data

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

Voltage Range 100 to 600 V
Current 16 Ampere

TO-220AB



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	MUR 1610CT	MUR 1615CT	MUR 1620CT	MUR 1640CT	MUR 1660CT	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 =75°C	I _{F(AV)}	16					A
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	100					A
Maximum instantaneous forward voltage @ I _F =8.0A	V _F	0.95		1.25		1.7	V
Maximum DC reverse current at rated DC blocking voltage @T _A =25°C @T _A =125°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 _{θJC}	2					°C/W
Operating junction and storage temperature range	T _J , T _{STG}	-55 to +150					°C

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

RATINGS AND CHARACTERISTICS CURVES MUR1610CT THRU MUR1660CT

Fig.1 - Forward Current Derating Curve

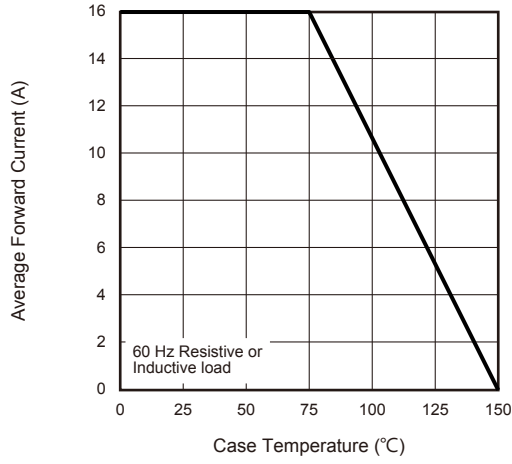


Fig.2 - Maximum Non-Repetitive Peak Forward Surge Current

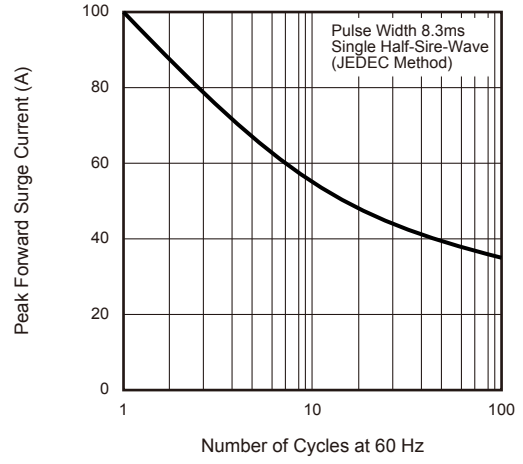


Fig.3 - Typical Instantaneous Forward Characteristics

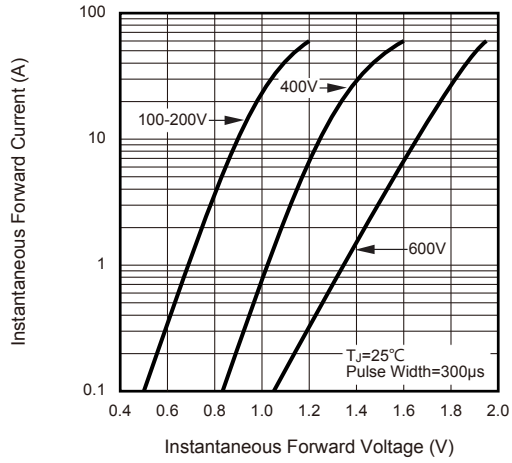


Fig.4 - Typical Reverse Leakage Characteristics

