


MURF3010CT – MURF3060CT

30 Amps Super Fast Recovery


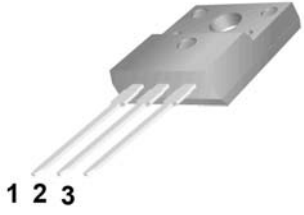
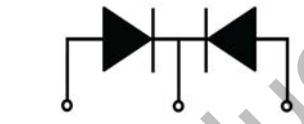


MURF3010CT – MURF3060CT

Features:

- High surge capacity
- Low Forward Voltage Drop.
- High Current Capability.
- Super Fast Switching Speed For High Efficiency

TO-220F

1. Anode 2. Cathode 3. Anode

Absolute Maximum Ratings (Ta=25°C unless otherwise noted)

Parameter	Symbol	MUR F3010 CT	MUR F3015 CT	MUR F3020 CT	MUR F3040 CT	MUR F3060 CT	Unit
Peak Repetitive Reverse Voltage	V _{RRM}	100	150	200	400	600	V
Working Peak Reverse Voltage	V _{RWM}	100	150	200	400	600	V
DC Blocking Voltage	V _{R(DC)}	100	150	200	400	600	V
Average Rectified Forward Current Per Leg Total Device, (Rated V _R), T _C = 150°C	I _{F(AV)}	15 30					A
Peak Rectified Forward Current Per Diode Leg (Rated V _R , Square Wave, 20 kHz), T _C = 150°C	I _{FM}	30					A
Nonrepetitive Peak Surge Current(Surge applied at rated load conditions half wave, single phase, 60 Hz)	I _{FSM}	180					A
Operating Junction Temperature and Storage Temperature	T _J , T _{stg}	-65 to +175					°C
Maximum Thermal Resistance, Junction-to-Case(Per Leg)	R _{θJC}	3.0			2.0		°C/W

ELECTRICAL CHARACTERISTICS (Per Diode Leg)

Parameter	Symbol	MUR F3010 CT	MUR F3015 CT	MUR F3020 CT	MUR F3040 CT	MUR F3060 CT	Unit
Forward Voltage (Note 1)(I _F = 15 A, T _C = 25°C) (I _F = 15 A, T _C = 150°C)	V _F	0.975 0.895			1.50 1.20	1.80 1.50	V
Maximum Instantaneous Reverse Current (Note 1) (Rated DC Voltage, T _C = 25°C) (Rated DC Voltage, T _C = 150°C)	I _R	5 250			10 500		μA
Maximum Reverse Recovery Time (I _F = 1.0 A, di/dt = 50 A/L s) (I _F = 0.5 A, I _R = 1.0 A, I _{REC} = 0.25 A)	T _{RR}	35 25			35 30		ns

Note 1.Pulse Test: Pulse Width = 300 μs, Duty Cycle ≤2.0%

Typical Characteristics

FIG.1 - FORWARD CURRENT DERATING CURVE

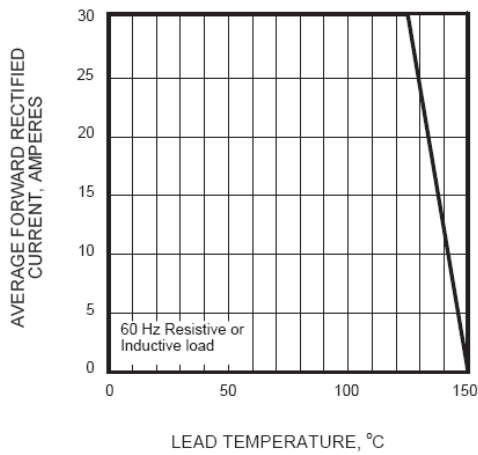


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

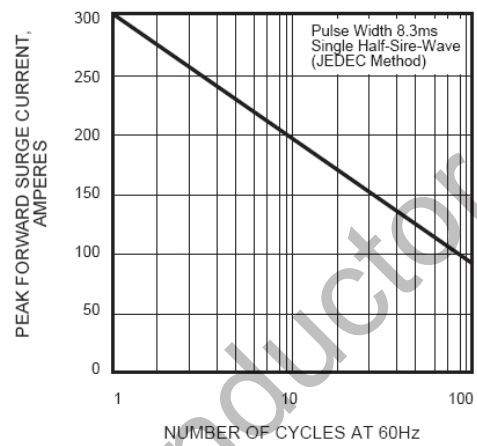


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

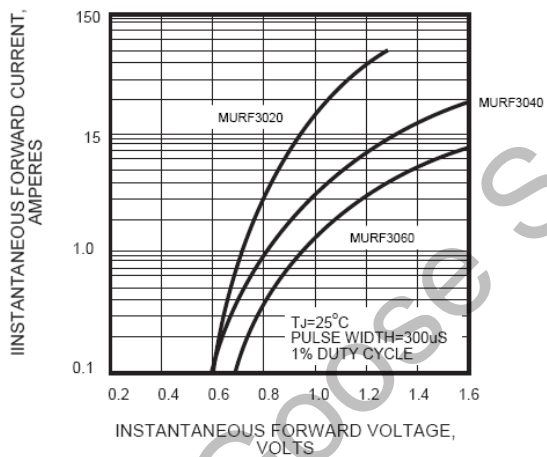


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

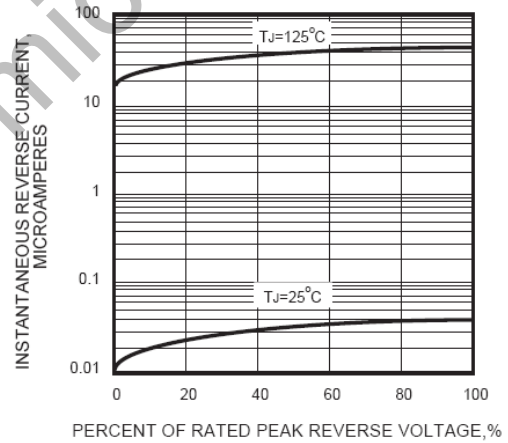
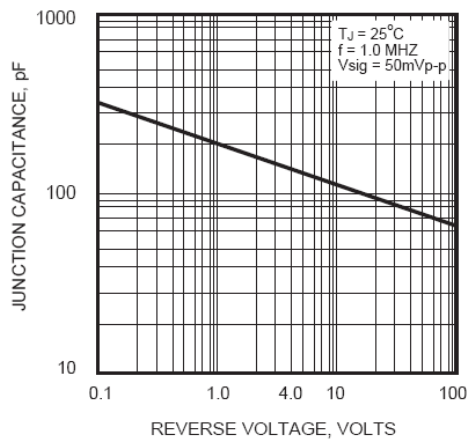


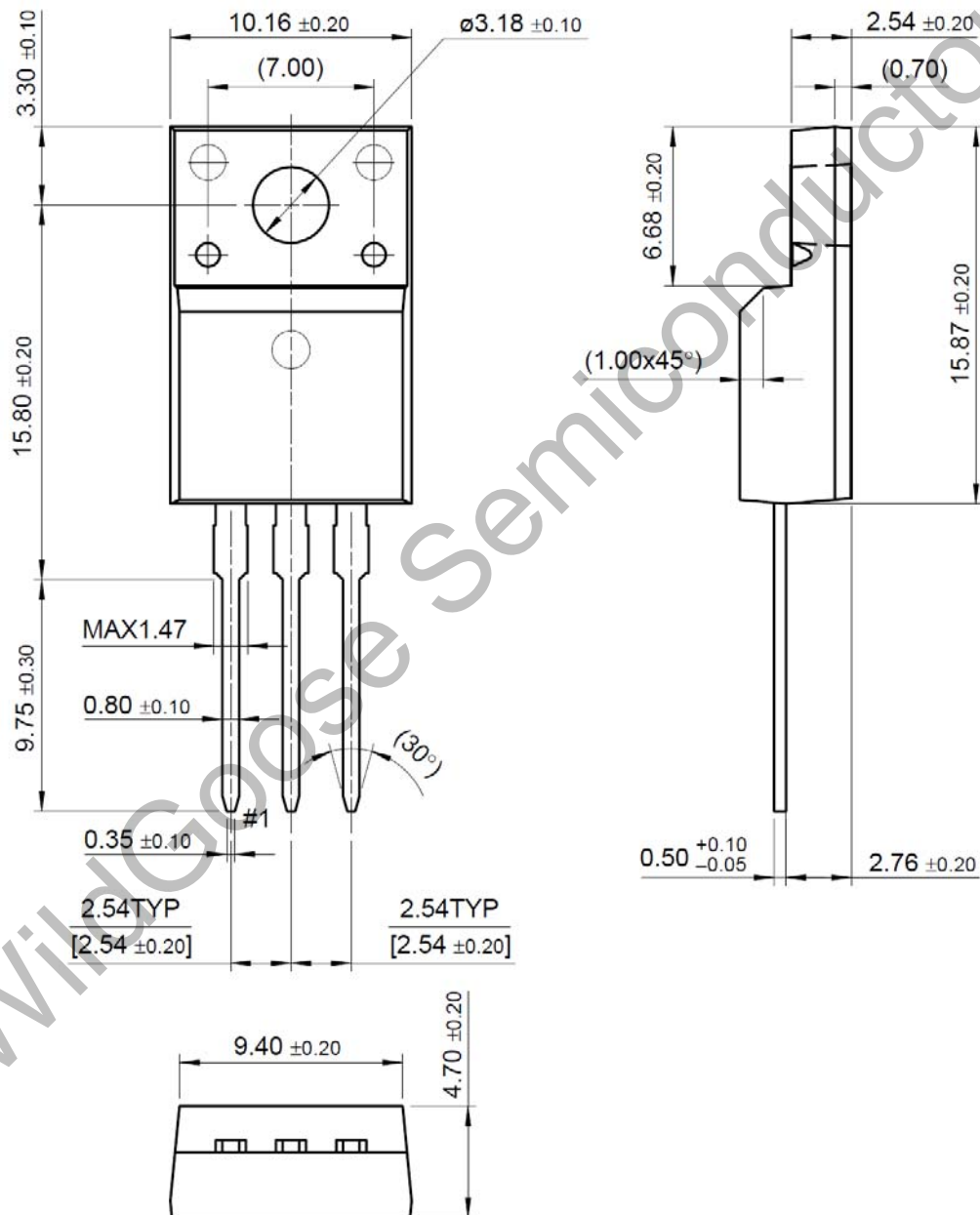
FIG.5 - TYPICAL JUNCTION CAPACITANCE



Package Dimension

TO-220F

Unit: mm



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