



MURF3020CTR – MURF3060CTR

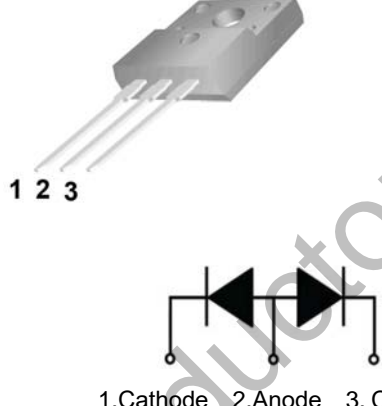
30 Amps Super Fast Recovery



Features:

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

TO-220F 



1.Cathode 2.Anode 3. Cathode

Maximum Ratings (Per Leg) At Ta=25°C Unless Otherwise Specified

Parameter	Symbols	MURF3020CTR	MURF3040CTR	MURF3060CTR	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	200	400	600	V
Maximum RMS voltage	V_{RMS}	140	280	420	V
Maximum DC Blocking Voltage	V_{DC}	200	400	600	V
Maximum Average Forward Rectified Current	Per Leg	15			A
	per device				
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	240			A
Instantaneous forward voltage at 15A per leg	V_F	1.2	1.5	1.9	V
Maximum instantaneous reverse current at rated DC blocking voltage	I_R	5 300			uA
Maximum Reverse Recovery Time NOTE 1	t_{rr}	45			nS
Typical Thermal Resistance	$R_{\theta JC}$	4			°C/W
Operating Junction Temperature Range	T_J	-55 ~ +150			°C
Storage Temperature Range	T_{STG}	-55 ~ +150			°C

Note1: Reverse recovery test conditions IF=0.5A,IR=1.0A, I_{rr}=0.25A

Typical Characteristics

Fig.1 Forward Current Derating Curve

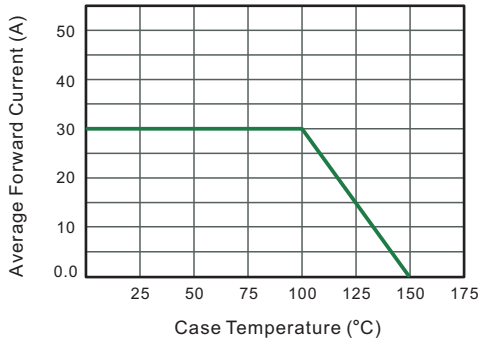


Fig.2 Typical Instaneous Reverse Characteristics

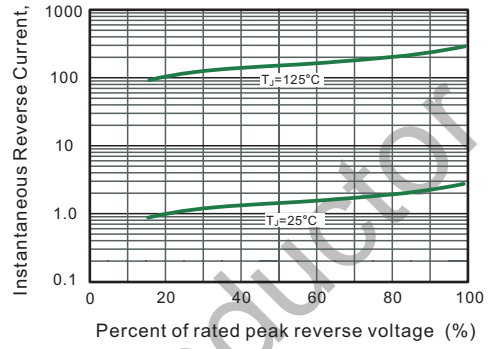


Fig.3 Typical Forward Characteristic

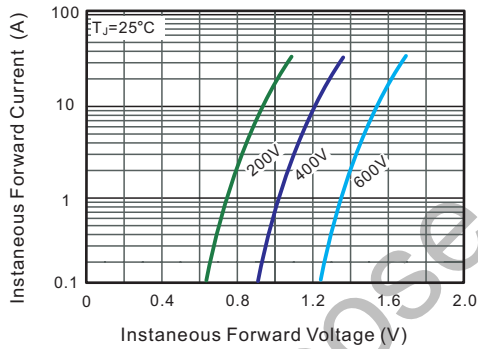
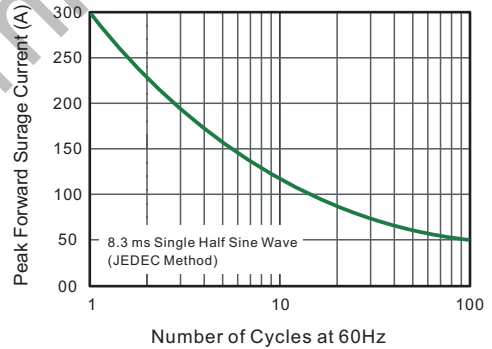
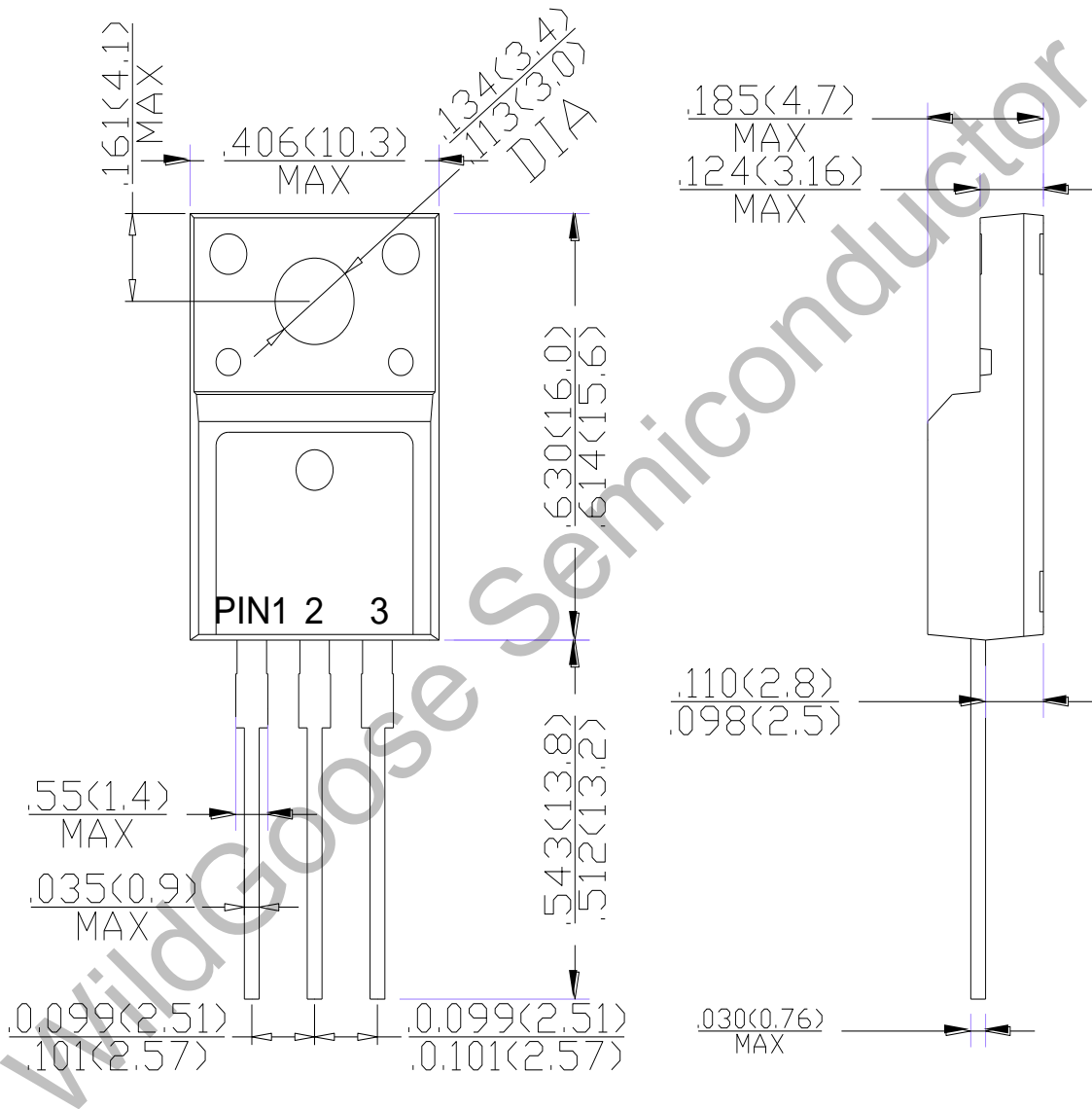


Fig.4 Maximum Non-Repetitive Peak Forward Surge Current



Package Dimension

TO-220F



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