

MURF3020CTR – MURF3060CTR

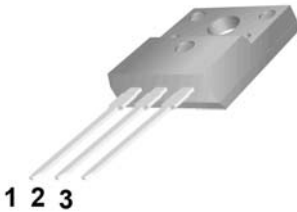
30 Amps Super Fast Recovery



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	$I_{F(AV)}$	15			A
	per device		30			
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			uA
Ta=25℃ Ta=125℃			300			
Maximum Reverse Recovery Time NOTE 1		t_{rr}	45			nS
Typical Thermal Resistance		$R_{\theta JC}$	4			℃/W
Operating Junction Temperature Range		T_J	-55 ~ +150			℃
Storage Temperature Range		T_{STG}	-55 ~ +150			℃

Note1: Reverse recovery test conditions $I_F=0.5A, I_R=1.0A, I_{rr}=0.25A$

Typical Characteristics

Fig.1 Forward Current Derating Curve

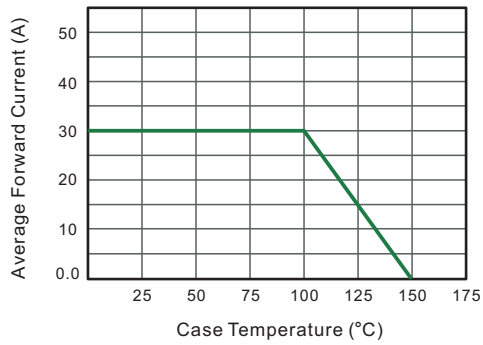


Fig.2 Typical Instantaneous Reverse Characteristics

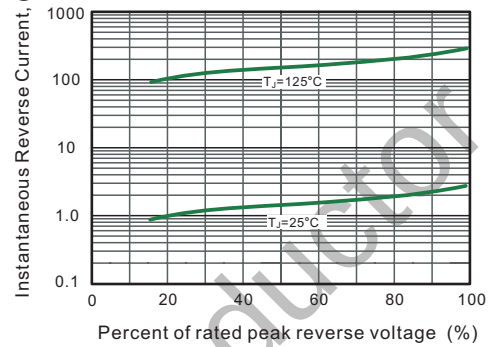


Fig.3 Typical Forward Characteristic

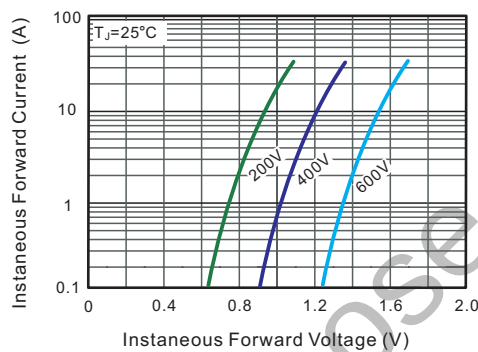
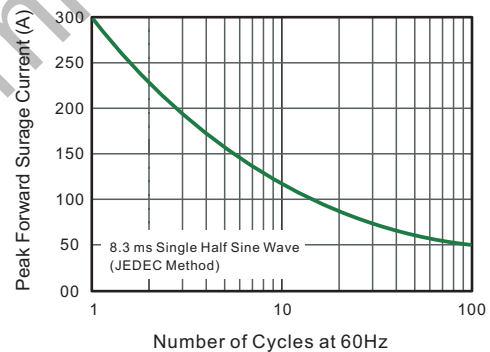


Fig.4 Maximum Non-Repetitive Peak Forward Surge Current



Package Dimension

TO-220F

