GLASS PASSIVATED SUPER FAST RECTIFIER
Reverse Voltage - 100 -600 Volts
Forward Current - 60.0Amperes

FEATURES

- Fred Chip Planar Construction
- SuperFast Switching,High Efficiency
- Low Power loss, High Efficiency
- Low Reverse Leakage Curren
- High Surge Current Capability
- Plastic Material has UL Flammability Classification 94V-O

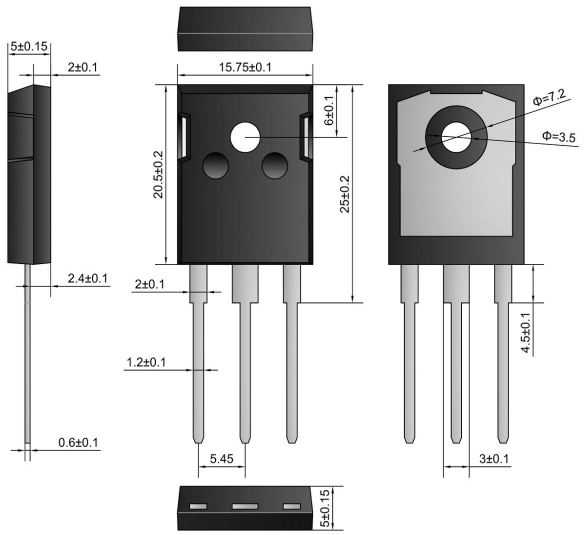
MECHANICAL DATA

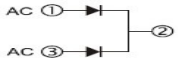
- Case: TO-247AD/TO-3P, Molded Plas
- Terminals:Pure tin Plated ,Lead free Solderable per MIL-STD-750, Method 2026
- Polarity: As marked
- Weight: 6.4 grams(approx)
- Mounting Position:Any

TYPICAL APPLICATIONS

- For use in High Frequency Rectifier of Switching Mode Power Supplies,Freewheeling Diode,DC/DC Converters or polarity Protection Application

TO-247AD / TO-3P unit:mm





Maximum Ratings and Electrical Characteristics @T_A=25℃ unless otherwise specified

Single Phase, half wave, 60H_Z, resistive or inductive load.
For capacitive load, derate current by 20%.

Characteristic	Symbol	MUR 6010PT	MUR 6015PT	MUR 6020PT	MUR 6030PT	MUR 6040PT	MUR 6050PT	MUR 6060PT	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	100	150	200	300	400	500	600	V
Maximum RMS Voltage	V_{RMS}	70	105	140	210	280	350	420	V
Maximum DC Blocking Voltage	V_{DC}	100	150	200	300	100	500	600	V
Maximum Average Forward (See Figure 1)	$I_{F(AV)}$	60							A
Peak Forward Surge Current : 8.3ms single half si ne-wave superimposed on rated load(JEDEC method)	I_{FSM}	350							A
Maximum Forward Voltage at 30A per leg	V_F	1.0			1.3		1.70		V
Maximum DC Reverse Current at T_A =25℃ Rated DC Blocking Voltag T_A =100℃	I_R	10 500							mA
Maximum Reverse Recovery Time (Measured With IF=0.5A, IR=1.0A,IRR=0.25A)	Trr	35			50				nS
Typical Thermal Resistance	$R_{\theta JC}$	1.0							℃/W
Operating Junction and Storage Temperature Range	T_J,T_{STG}	-55 to +150							℃

Note: (1)Mounted on 14mm X 14mm pad areas,1oz.FR4 P.C.B
(2)Free air,mounted on recommended copper pad area
(3).Pulse test:300us pulse width,1% duty cycle
(4).Pulse test:Pulse width≦40ms

RATING AND CHARACTERISTIC CUEVES

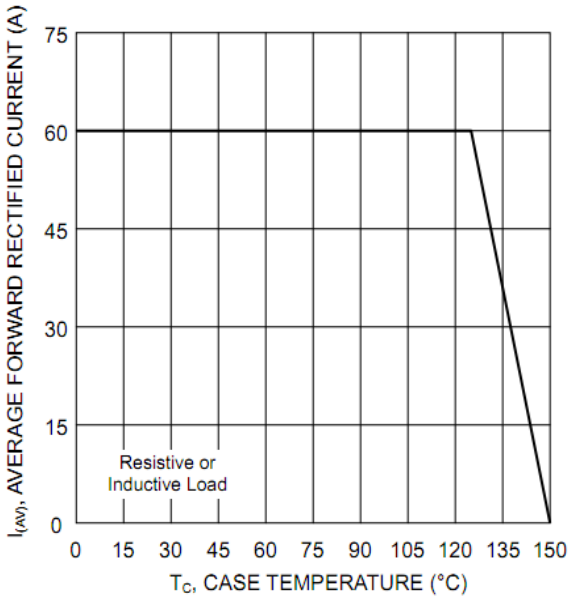


Fig-1
FORWARD CURRENT DERATING CURVE

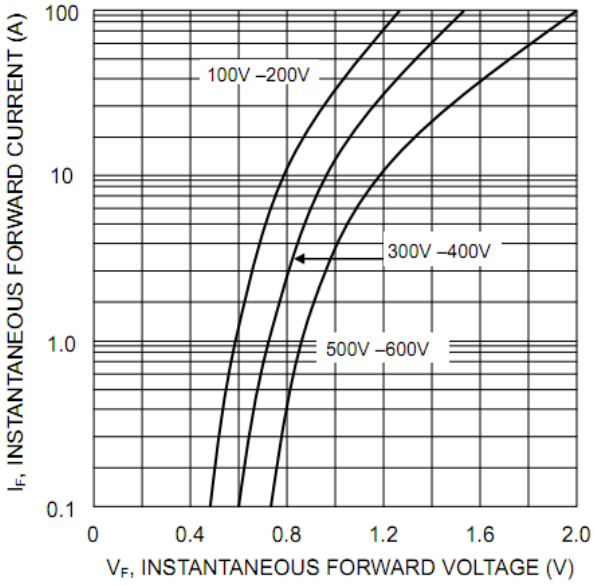


Fig-2
TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC

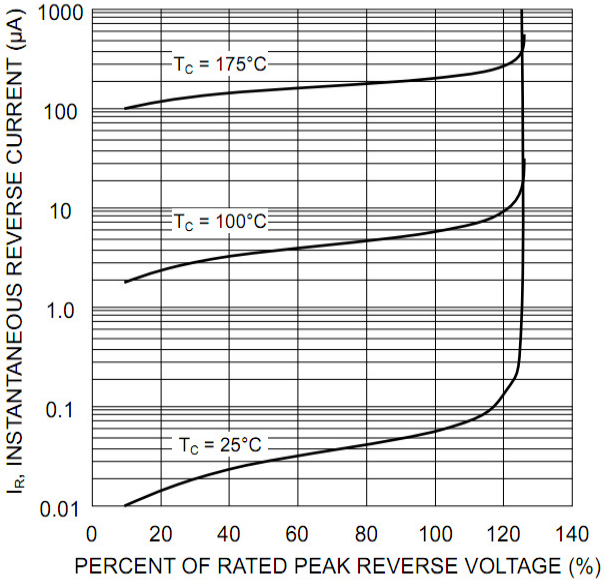


Fig-3
TYPICAL REVERSE CHARACTERISTICS

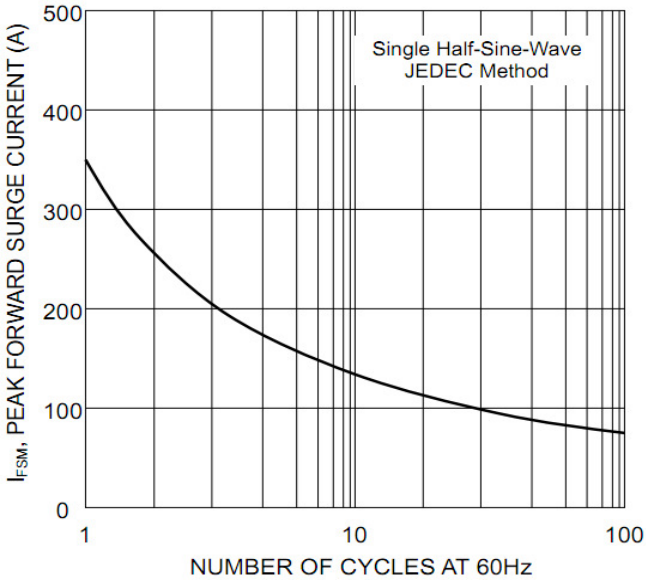


Fig-4
MAXIMUM NON-REPETITIVE SURGE CURRENT