MUR60120PT

SEMICONDUCTOR

GLASS PASSIVATED SUPER FAST RECTIFIER
Reverse Voltage - 1200 Volts
Forward Current - 60.0Amperes

FEATURES

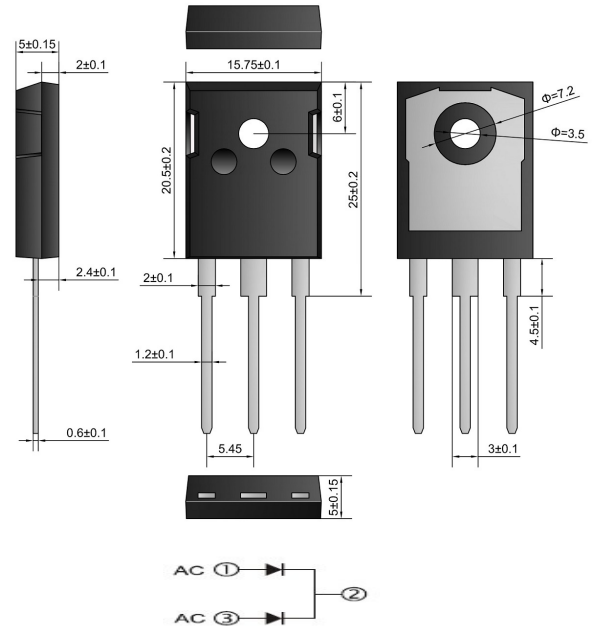
- Fred Chip Planar Construction
- SuperFast Switching,High Efficiency
- Low Power loss, High Efficiency
- Low Reverse Leakage Curren
- High Surge Current Capability
- Plastic Material has UL Flammability Classification 94V-O

MECHANICAL DATA

- Case:TO-247AB,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

TO-247AB

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	MUR60120PT		Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	1200		V
Maximum RMS Voltage	V_{RMS}	840		V
Maximum DC Blocking Voltage	V_{DC}	1200		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}	300		A
Maximum Forward Voltage at 30A per leg	V_F	Typ.	Max.	V
		2	2.4	
Maximum Reverse Recovery Time (Measured With IF=0.5A, IR=1.0A,IRR=0.25A)	Trr	Typ.	Max.	nS
		55	75	
Maximum DC Reverse Current at TA =25℃ Rated DC Blocking Voltag TA =125℃	I_R	5 50		uA
Typical Thermal Resistance Junction to case	$R_{\theta JC}$	1.5		℃/W
Typical Thermal Resistance Junction to Ambient	$R_{\theta JA}$	45		℃/W
Operating Junction and Storage Temperature Range	T_J,T_{STG}	-55 to +150		℃

RATING AND CHARACTERISTIC CUEVES

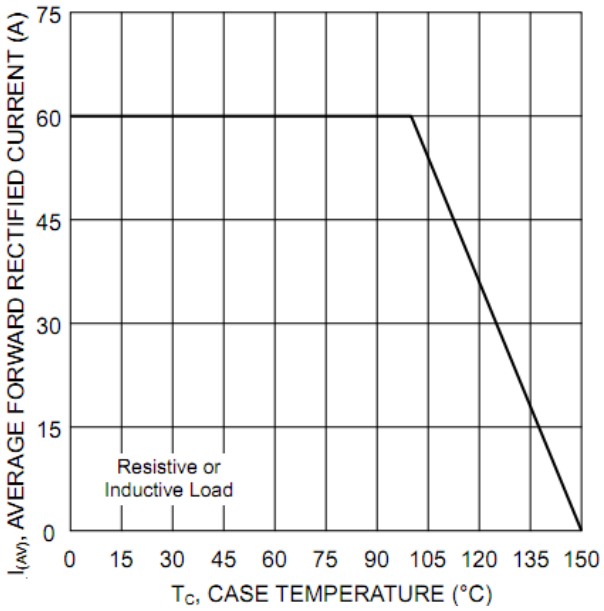


Fig-1
FORWARD CURRENT DERATING CURVE

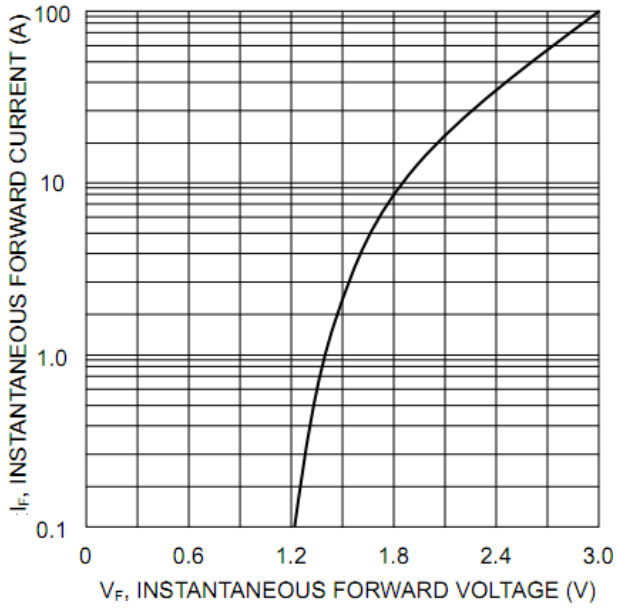


Fig-2
TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC

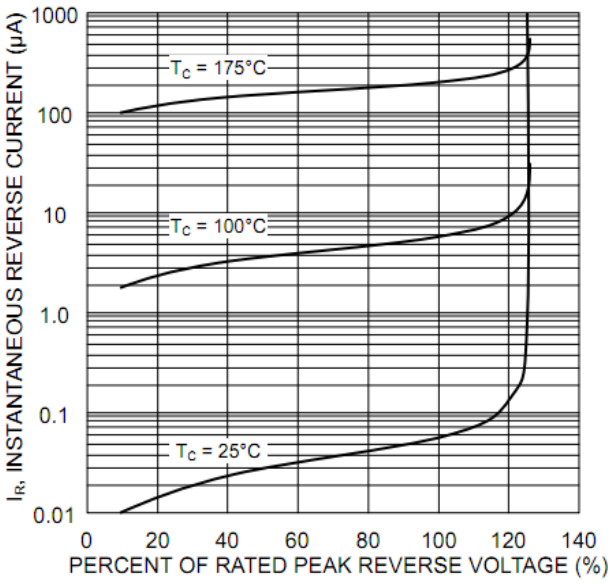


Fig-3
TYPICAL REVERSE CHARACTERISTICS

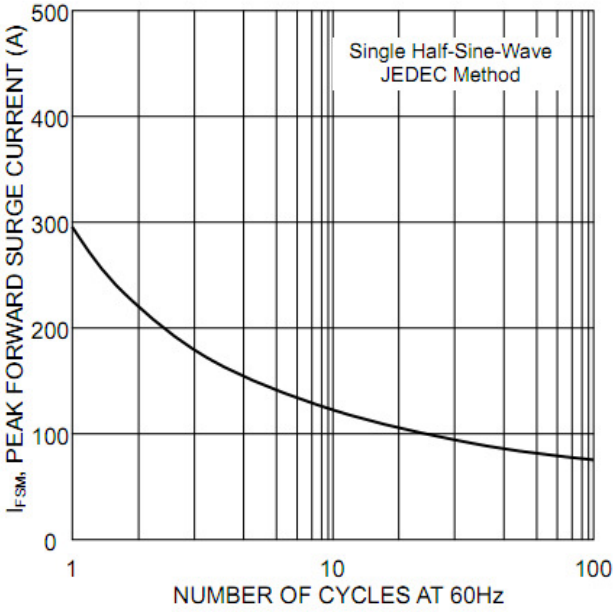


Fig-4
MAXIMUM NON-REPETITIVE SURGE CURRENT