

FEATURES

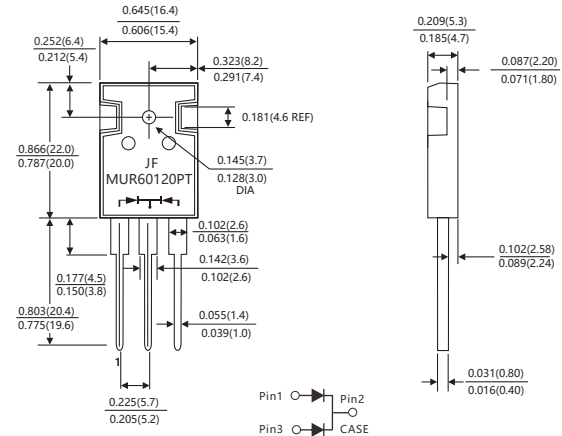
- Fred Chip Planar Construction
- SuperFast Switching,High Efficiency
- Low Power loss, High Efficiency
- Low Reverse Leakage Curren
- High Surge Current Capability
- Plastic Material has UL Flammability Classification 94V-0

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°C unless otherwise specified

Single Phase, half wave, 60Hz, 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 sine-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 I _F =0.5A, I _R =1.0A,I _{RR} =0.25A)	T _{rr}	Typ.	Max.	nS
		55	75	
Maximum DC Reverse Current at Rated DC Blocking Voltage	I _R	5		uA
TA =25°C TA =125°C		50		
Typical Thermal Resistance Junction to case	R _{θ J C}	1.5		°C/W
Typical Thermal Resistance Junction to Ambient	R _{θ J A}	45		°C/W
Operating Junction and Storage Temperature Range	T _J ,T _{STG}	-55 to +150		°C

MUR60120PT

RATING AND CHARACTERISTIC CUEVES

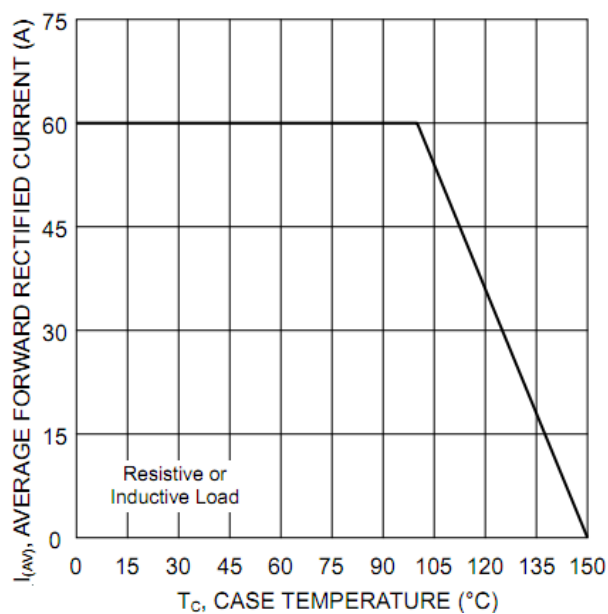


Fig-1
FORWARD CURRENT DERATING CURVE

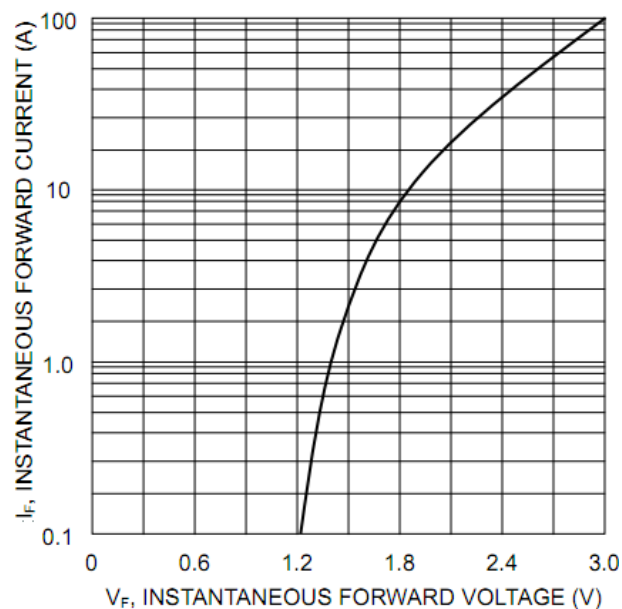


Fig-2
TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC

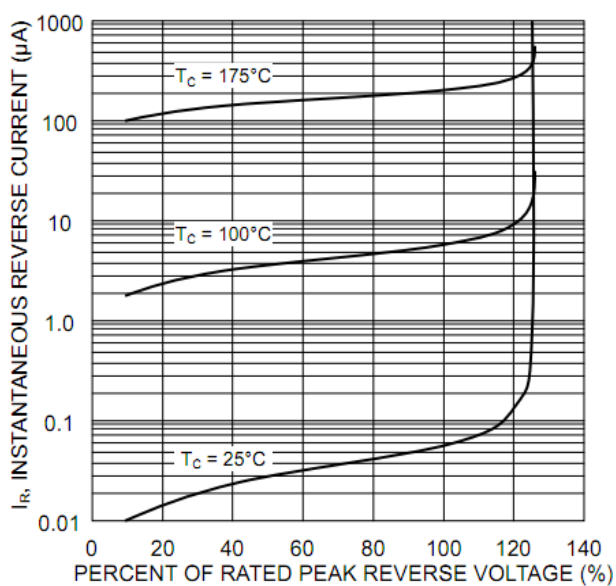


Fig-3
TYPICAL REVERSE CHARACTERISTICS

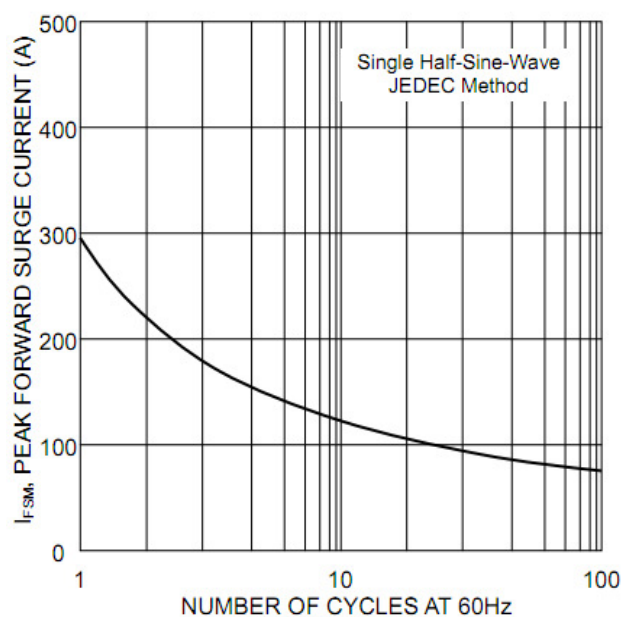


Fig-4
MAXIMUM NON-REPETITIVE SURGE CURRENT