

Pb Free Plating Product

MURF3020PT/MURF3040PT/MURF3060PT





30 Ampere Insulated Dual Common Cathode Fast Recovery Half Bridge Rectifiers

Features

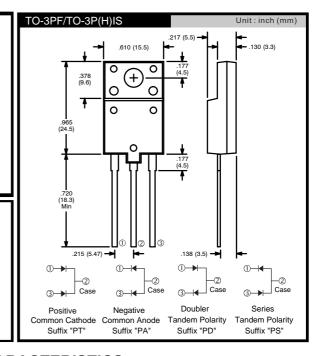
- Latest GPP technology with super fast recovery time
- Low forward voltage drop
- High current capability
- Low reverse leakage current
- High surge current capability

Application

- * Automotive Inverters/Solar Inverters
- ★ Plating Power Supply,SMPS,Adapter and UPS
- ★ Car Audio Amplifiers and Sound Device Systems

Mechanical Data

- Case: TO-3P(H)IS/TO-3PF isolated
- Epoxy: UL 94V-0 rate flame retardant
- Terminals: Solderable per MIL-STD-202 method 208
- Polarity: As marked on diode body
- Mounting position: Any
- Weight: 5.6 gram approximately



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

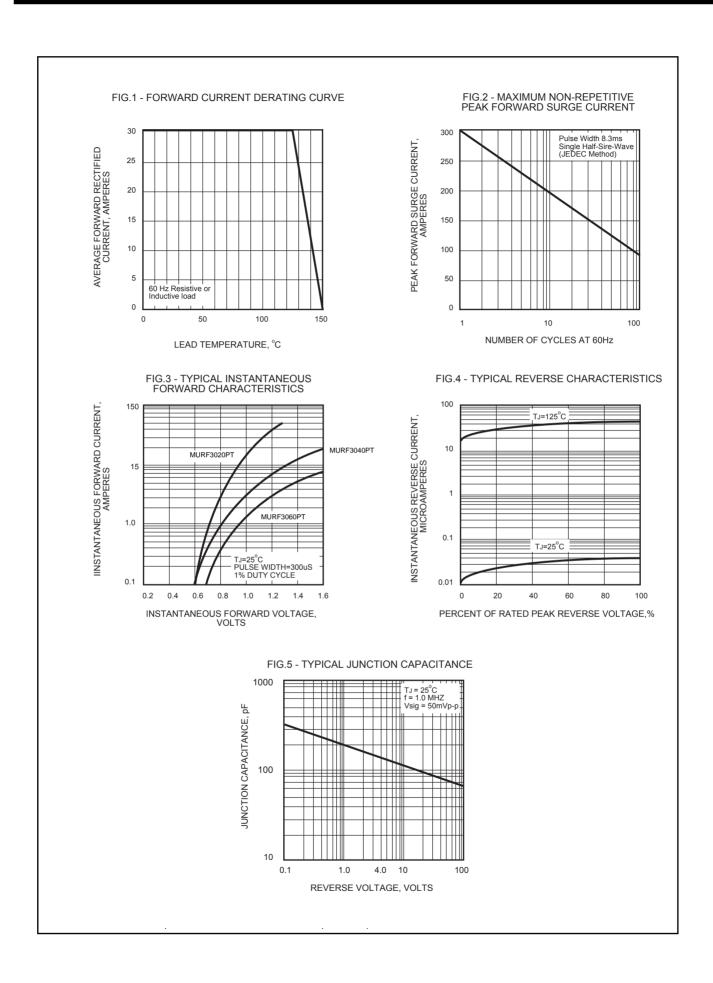
	SYMBOL	MURF3020PT	MURF3040PT	MURF3060PT	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	200	400	600	V
Maximum RMS Voltage	VRMS	140	280	420	V
Maximum DC Blocking Voltage	VDC	200	400	600	V
Maximum Average Forward Rectified Current Tc=125°C	IF(AV)	30.0			Α
Peak Forward Surge Current, 8.3ms single Half sine-wave superimposed on rated load (JEDEC method)	IFSM	300			A
Maximum Instantaneous Forward Voltage @ 15.0 A	VF	0.98	1.3	1.7	V
Maximum DC Reverse Current @T _J =25°C At Rated DC Blocking Voltage @T _J =125°C	lR	10 500			uA uA
Maximum Reverse Recovery Time (Note 1)	Trr	35-50			nS
Typical junction Capacitance (Note 2)	CJ	150			pF
Operating Junction and Storage Temperature Range	TJ, TSTG	-55 to +150			°C

NOTES: (1) Reverse recovery test conditions IF = 0.5A IR = 1.0A Irr = 0.25A.

- (2) Thermal Resistance junction to terminal.
- (3) Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts DC.

Rev.06





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