Rev.06

MURF3020PD/MURF3040PD/MURF3060PD

30 Ampere Insulated Dual Doubler Polarity Fast Recovery Half Bridge Rectifiers

Features

- Latest GPP technology with super fast recovery time
- * Low forward voltage drop

Pb Free Plating Product

- 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	MURF3020PD	MURF3040PD	MURF3060PD	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			А
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 @TJ=25°C At Rated DC Blocking Voltage @TJ=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.







