Rev.06

MUR1220CT/MUR1240CT/MUR1260CT

12 Ampere Heatsink Dual Common Cathode Fast Recovery Half Bridge Rectifiers

Features

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

Pb Free Plating Product

- Low reverse leakage current *
- * High surge current capability

Application

- ★ Automotive Inverters and Solar Inverters
- ★ Plating Power Supply,SMPS,Motor Control and UPS
- Car Audio Amplifiers and Sound Device Systems

Mechanical Data

- Case: Heatsink TO-220AB/TO-220CE *
- 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: 2.2 gram approximately *

1.52±0.20 0 80±0.2 2.54typ 2.54tvp 0.50±0.20 1 <u></u> 1 2 Case 3-G 3 3 Positive Negative Doubler Series andem Polarity nmon Cathode Common Anode Suffix "CT" Suffix "CTR" Suffix "CTD"

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	MUR1220CT	MUR1240CT	MUR1260CT	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=100°C	IF(AV)	12.0			A
Peak Forward Surge Current, 8.3ms single Half sine-wave superimposed on rated load (JEDEC method)	IFSM	100			A
Maximum Instantaneous Forward Voltage @ 6.0 A	VF	0.98	1.3	1.7	V
Maximum DC Reverse Current @TJ=25°C At Rated DC Blocking Voltage @TJ=125°C	IR	5.0 100			uA uA
Maximum Reverse Recovery Time (Note 1)	Trr	35			nS
Typical junction Capacitance (Note 2)	CJ	65			pF
Typical Thermal Resistance (Note 3)	Rejc	2.2			°CW
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) Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts DC.

(3) Thermal Resistance junction to case.



BoHS





