

Pb Free Plating Product

MUR1520G/MUR1540G/MUR1560G



16.0 Ampere Heatsink Single Ultra Fast Recovery Rectifier Diodes

Features

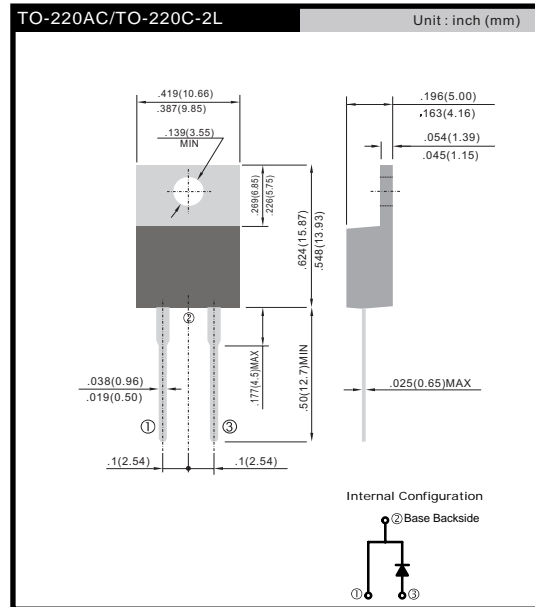
- ★ Latest P/G technology with ultra fast recovery time
- ★ Low forward voltage drop
- ★ High current capability
- ★ Low reverse leakage current
- ★ High surge current capability

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-220-2L
- ★ 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



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%

CHARACTERISTICS	SYMBOL	MUR1520G	MUR1540G	MUR1560G	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 @TA =125°C	I(AV)	16.0			A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load(JEDEC Method)	IFSM	250			A
Peak Forward Voltage at 16.0A DC	VF	0.95	1.25	1.50	V
Maximum DC Reverse Current at Rated DC Blocking Voltage @Tj=25°C	IR	5.0			μA
Maximum DC Reverse Current at Rated DC Blocking Voltage @Tj=125°C	IR	50			μA
Maximum Reverse Recovery Time(Note1)	TRR	35-50			nS
Typical Junction Capacitance (Note2)	CJ	80			pF
Typical Thermal Resistance (Note3)	RθJA	16			°C/W
Operating and Storage Temperature Range	TJ,TSTG	-55 to + 150			°C

NOTES: 1. Measured with IF=0.5A, IR=1A, IRR=0.25A

2. Measured at 1.0 MHZ and applied reverse voltage of 4.0VDC.

3. Thermal resistance junction to ambient

RATING AND CHARACTERISTIC CURVES (MUR1520G thru MUR1560G)

