



Glass passivated super fast rectifier

Reverse voltage 50 to 600 volts forward current 15.0 ampers

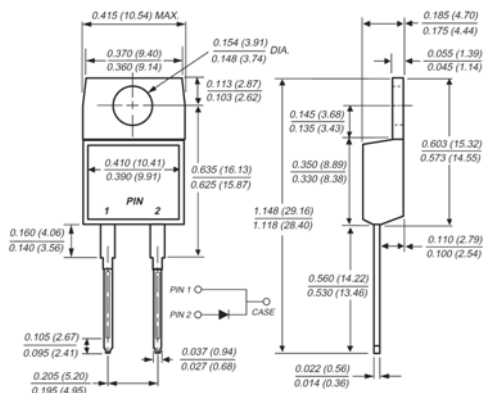
Features

- ◆ Superfast switching time for hight efficiency
- ◆ Low reverse leakage current
- ◆ High surge capacity

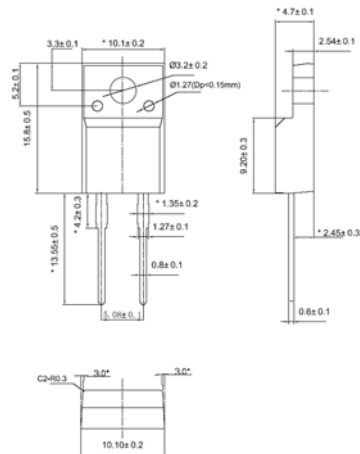
Mechanical Data

- ◆ Case: TO-220AB full molded plastic package
- ◆ Terminals: Lead solderable per MIL-STD-202, Method 208
- ◆ Polarity: As marked
- ◆ Standard packaging: Any
- ◆ Weight: 0.08 ounces, 2.24 grams

TO-220AC



TO-220FC



Maximum Ratings and Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

Parameter	Symbol	MUR1505/F	MUR1510/F	MUR1520/F	MUR1540/F	MUR1560/F	Unit
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	200	400	600	Volts
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	Volts
Maximum DC blocking voltage	V _{DC}	50	100	200	400	600	Volts
Maximum average forward rectified current at T _C =110°C	I _{F(AV)}	15					Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	150					Amps
Maximum instantaneous forward voltage at 15A	V _F	1.25			2.0		Volts
Maximum DC reverse current @T _J =25°C at rated DC blocking voltage @T _J =100°C	I _R	10.0 1000					μA
Maximum reverse recovery time at I _F =0.5A, I _R =1.0A, I _{RR} =0.25A	t _{rr}	35			60		nS
Operating junction and storage temperature range	T _J , T _{STG}	-55 to +150					°C

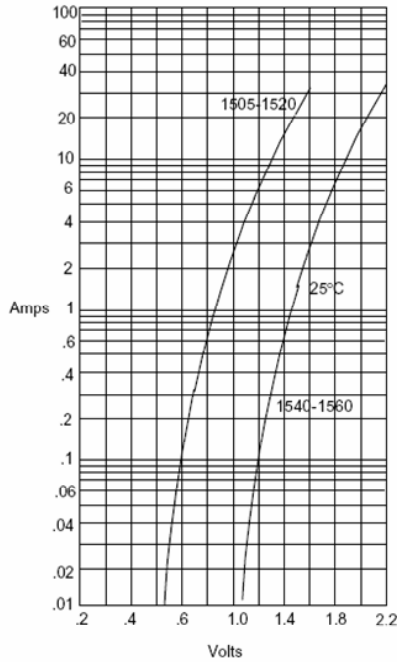
Notes 1. Pulse test: Pulse width 300 usec, Duty cycle 2%



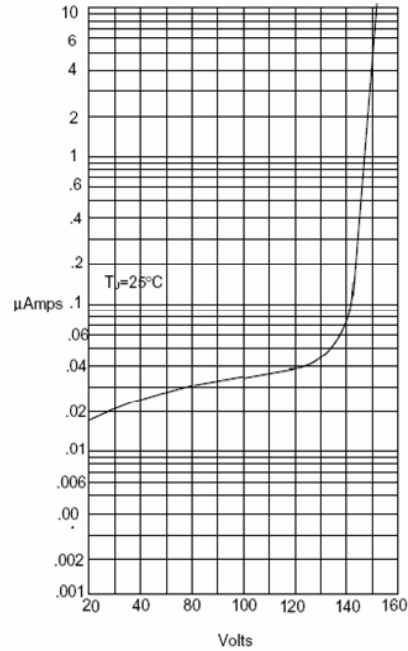
MUR1505/F ~ MUR1560/F

RATINGS AND CHARACTERISTIC CURVES

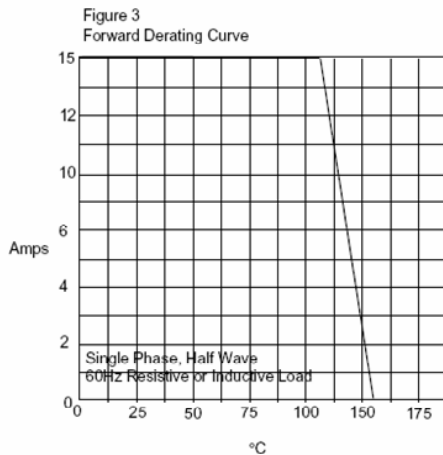
($T_A = 25^\circ\text{C}$ unless otherwise noted)



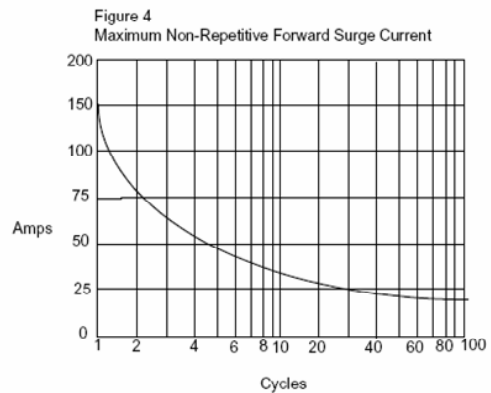
Instantaneous Forward Current - Amperes versus
Instantaneous Forward Voltage - Volts



Instantaneous Reverse Leakage Current - MicroAmperes versus
Percent Of Rated Peak Reverse Voltage - Volts



Average Forward Rectified Current - Amperes versus
Case Temperature - $^\circ\text{C}$



Peak Forward Surge Current - Amperes versus
Number Of Cycles At 60Hz - Cycles