Glass passivated super fast rectifier
Reverse voltage 50 to 600 volts forward current 15.0 ampers

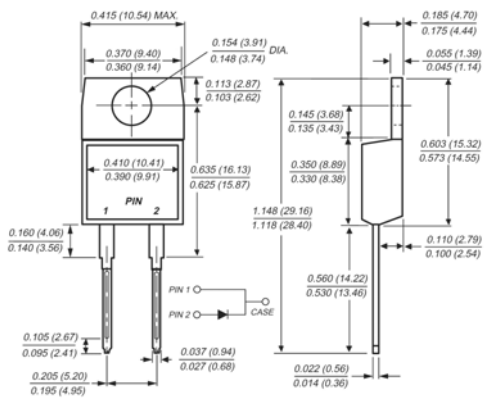
Features

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

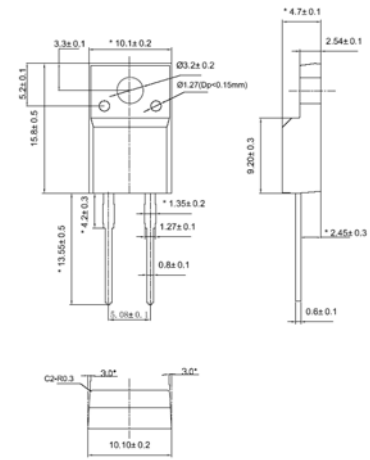
Mechanical Data

- 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

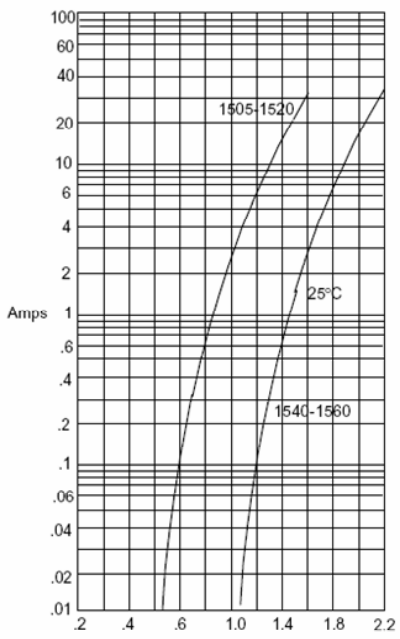
Ratings at 25°C ambient temperature unless otherwise specified.

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℃	I_R	10.0 1000					uA
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%

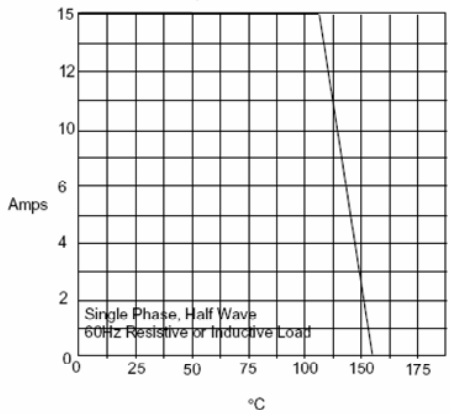
RATINGS AND CHARACTERISTIC CURVES

(T_A = 25°C unless otherwise noted)

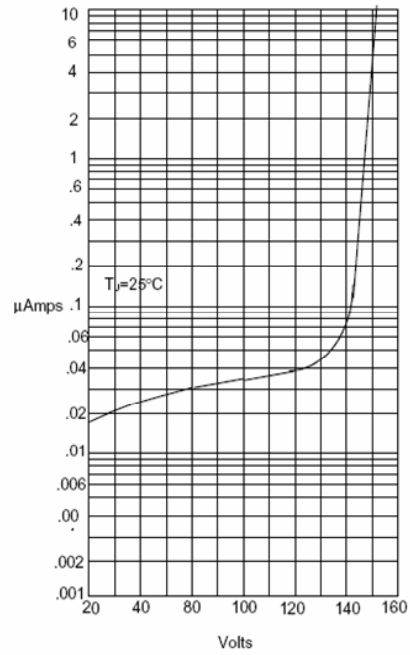


Instantaneous Forward Current - Amperes *versus*
Instantaneous Forward Voltage - Volts

Figure 3
Forward Derating Curve

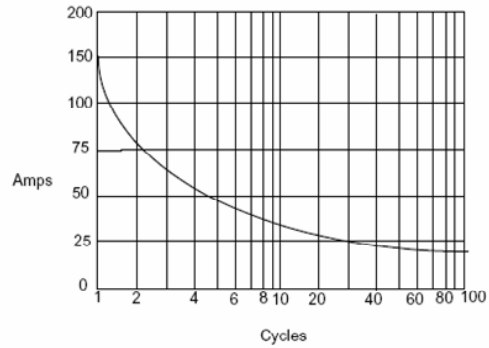


Average Forward Rectified Current - Amperes *versus*
Case Temperature -°C



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

Figure 4
Maximum Non-Repetitive Forward Surge Current



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