



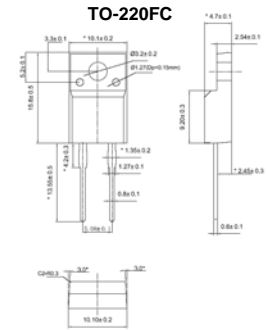
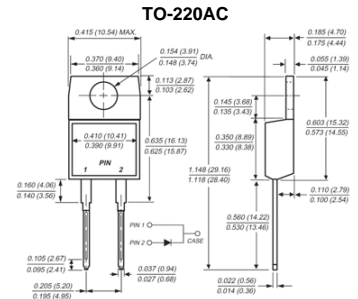
Glass passivated super fast rectifier
Reverse voltage 600 volts forward current 15 amperes

Features

- ◆ Superfast switching time for high 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



Limiting Values (Absolute Maximum Rating)

Item	Symbol	Unit	Conditions	MUR
				1560/F
Repetitive Peak Reverse Voltage	V_{RRM}	V		600
Average Rectified Output Current	I_o	A	60Hz sine wave, R- load, $T_a=25^{\circ}C$	15
Surge(Non-repetitive)Forward Current	I_{FSM}	A	60Hz sine wave, 1 cycle, $T_a=25^{\circ}C$	150
Current Squared Time	I^2t	A^2s	$1ms \leq t < 8.3ms$ $T_j=25^{\circ}C$	93
Storage Temperature	T_{stg}	$^{\circ}C$		-55 ~ +150
Junction Temperature	T_j	$^{\circ}C$		-55 ~ +150

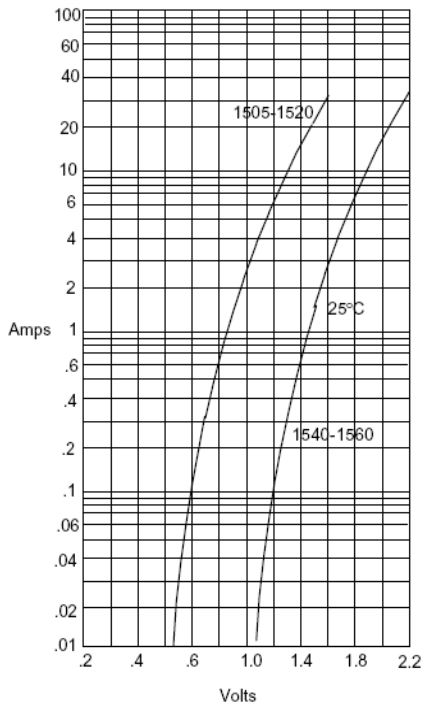
Electrical Characteristics ($T_a=25^{\circ}C$ Unless otherwise specified)

Item	Symbol	Unit	Test Condition	Max	
Peak Forward Voltage	V_{FM}	V	$I_{FM} = 15.0A$	2.0	
Peak Reverse Current	I_{RRM1}	μA	$V_{RM} = V_{RRM}$	$T_a=25^{\circ}C$	10
	I_{RRM2}			$T_a=125^{\circ}C$	1000
Reverse Recovery Time	T_{rr}	ns	$I_F=0.5A$ $I_{RM}=1A$ $I_{RR}=0.25A$	60	
Thermal Resistance	$R_{\theta J-C}$	$^{\circ}C/W$	Between junction and case	2.0 (TO-220AC) 4.0 (TO-220FC)	

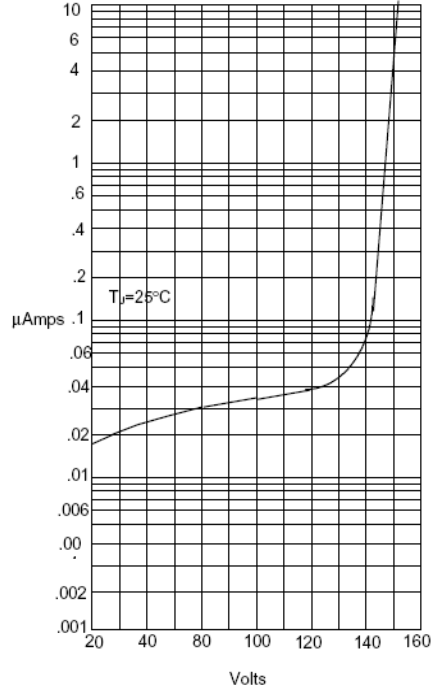


MUR1560/F

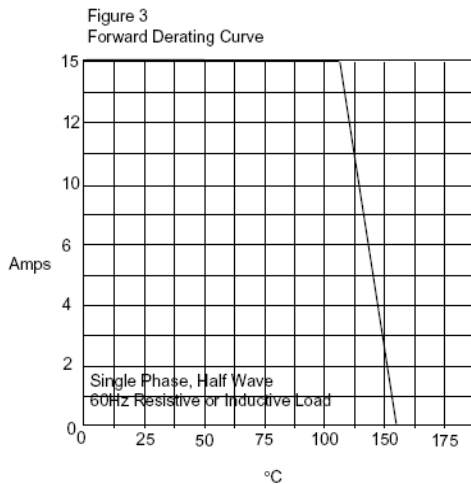
RATINGS AND CHARACTERISTIC CURVES (T_A = 25°C unless otherwise noted)



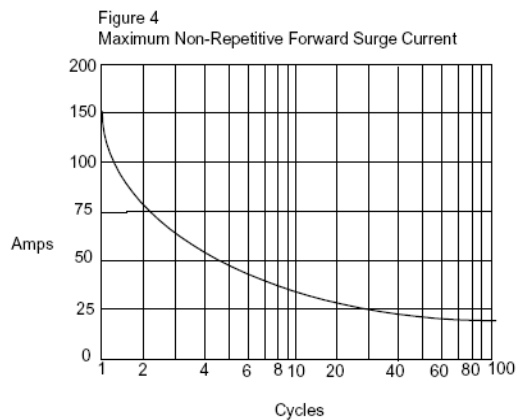
Instantaneous Forward Current - Amperes versus Instantaneous Forward Voltage - Volts



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



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



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