



SUPER FAST DIODE MODULE TYPES

Features

High Surge Capability
Types Up to 600V V_{RRM}

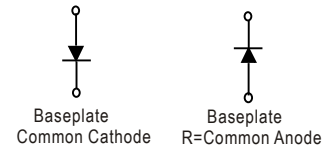
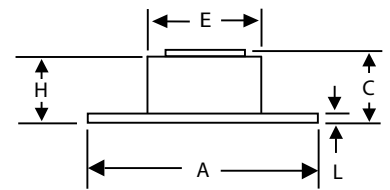
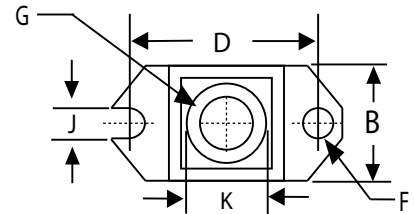
**70 Amp Rectifier
200-600 Volts**

Maximum Ratings

Operating Temperature: -55°C to +175°C
Storage Temperature: -55°C to +175°C

Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MURH7020(R)	200V	140V	200V
MURH7040(R)	400V	280V	400V
MURH7060(R)	600V	420V	600V

HALF PACKAGE



Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current (Per pkg)	$I_{F(AV)}$	70 A	$T_C = 125^\circ C$
Peak Forward Surge Current	I_{FSM}	1500A	8.3ms, half sine
Maximum Instantaneous Forward Voltage *	V_F	7020: 1.00V 7040: 1.30V 7060: 1.70V	$I_{FM} = 70A;$ $T_J = 25^\circ C$
Maximum Reverse Current At Rated DC Blocking Voltage*	I_R	25 uA 3 mA	$T_J = 25^\circ C$ $T_J = 125^\circ C$
Maximum Reverse Recovery Time	T_{rr}	7020: 75 ns 7040: 90 ns 7060: 110 ns	$I_F = 0.5A, I_R = 1.0A,$ $I_{RR} = 0.25A$
Maximum Thermal Resistance Junction To Case	$R_{\theta jc}$	0.60°C/W	
Weight		28.9g	

*Pulse Test: Pulse Width 300 μs, Duty Cycle 2%

DIM	DIMENSIONS				NOTE
	INCHES		MM		
A	1.515	1.560	38.48	39.62	
B	.725	.775	18.42	19.69	
C	.595	.633	15.11	16.10	
D	1.182	1.192	30.02	30.28	
E	.736	.744	18.70	18.90	
F	.152	.160	3.86	4.061	∅
G	1/4 - 20		UNC		
H	.540	.580	13.72	14.73	
J	.156	.160	3.96	4.06	
K	.480	.492	12.20	12.50	∅
L	.120	.130	3.05	3.30	



Figure .1- Typical Forward Characteristics

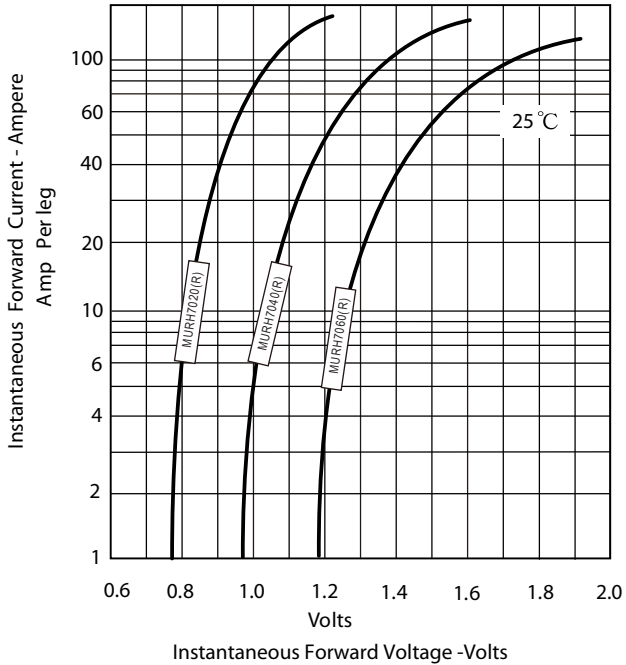


Figure .2- Forward Derating Curve

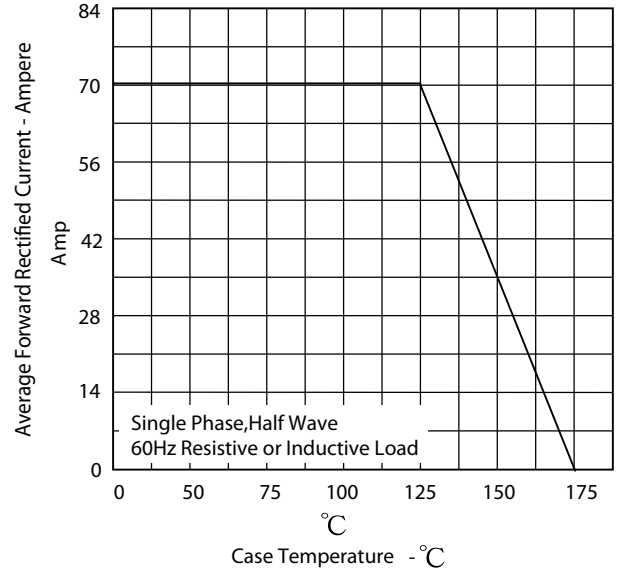


Figure.3- Peak Forward Surge Current

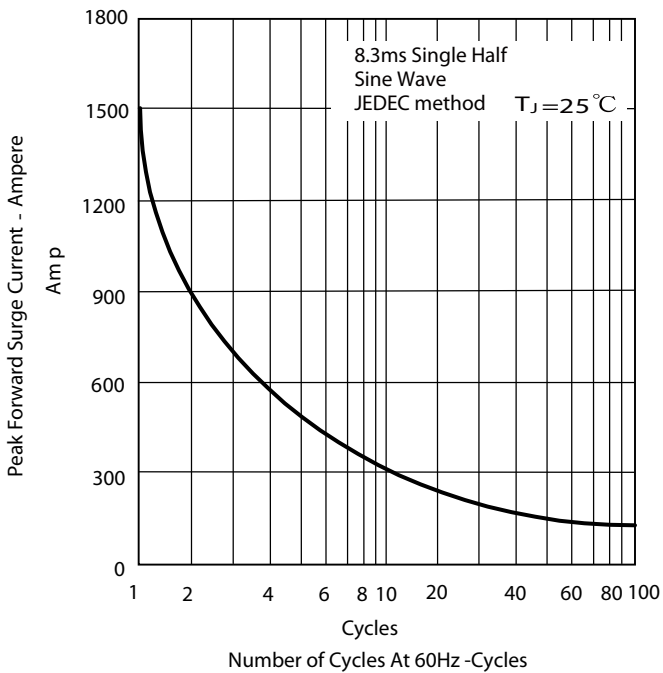
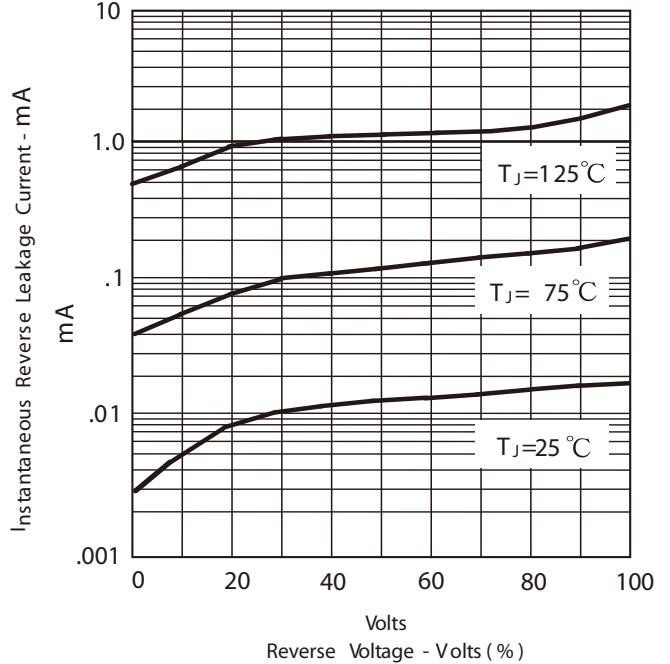


Figure .4 -Typical Reverse Characteristics





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