

# SUPER FAST DIODE MODULE TYPES 70A

### **Features**

High Surge Capability Types Up to 600V  $_{\rm RRM}$ 

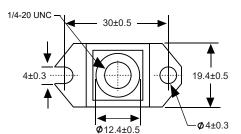
### **Maximum Ratings**

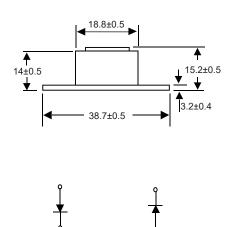
Junction Operating Temperature : -55°C to +175°C Storage Temperature : -55°C to +175°C

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



Dimensions in mm (1 mm = 0.0394")





Baseplate

Common Cathode

#### Electrical Characteristics @25°C Unless Otherwise Specified

Average Forward Current (Pe	er pkg)	IF(AV)	70A	Tc =125°C
Peak Forward Surge Current		Ifsm	1300A	8.3ms, half sine
Instantaneous	7020 7040 7060	Vf	1.0V 1.3V 1.7V	Iгм =70А ; Т」=25°С
Maximum Instantaneous Reverse Current At Rated DC Blockig Voltage*		lr	25uA 3mA	TJ =25°C TJ =125°C
Maximum Reverse	7020 7040 7060	Trr	75ns 90ns 110ns	IF =0.5A, IR =1.0A IRR =0.25A
Maximum Thermal Resistance Junction To Case		R <b>ø</b> jc	0.6°C/W	

\*Pulse Test: Pulse Width 300  $\mu$  sec, Duty Cycle < 2%

Baseplate

R=Common Anode



## MURH7020(R) THRU MURH7060(R)

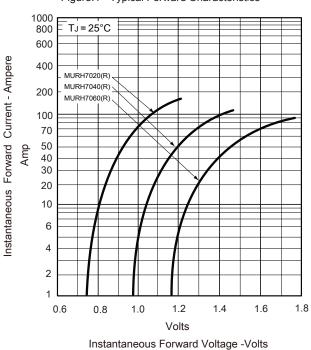


Figure.1 - Typical Forward Characteristics

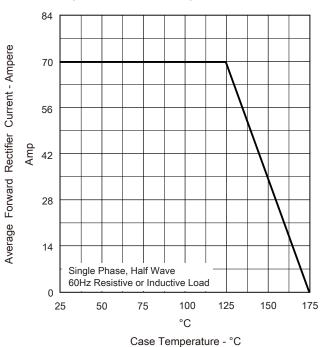
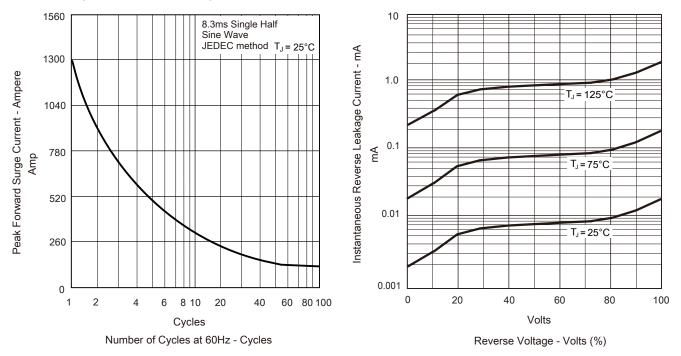


Figure.2 - Forward Derating Curve



Figure.3 - Peak Forward Surge Current







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