DACO SEMICONDUCTOR CO., LTD.

MURH10020(R)
THRU
MURH10060(R)

SUPER FAST DIODE MODULE TYPES
100A / 200-600V

100 Amp Rectifier
200-600 Volts

Features

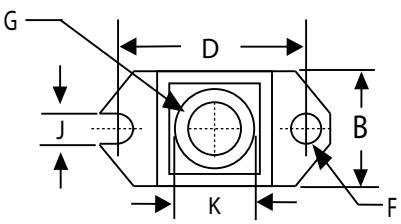
High Surge Capability
Types Up to 600V V_{RRM}

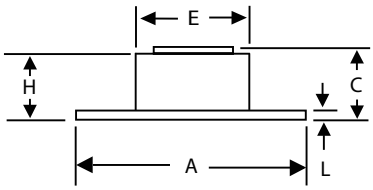
Maximum Ratings

Operating Temperature: -55℃ to+175 ℃
Storage Temperature: -55℃ to+175 ℃

Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MURH10020(R)	200V	140V	200V
MURH10040(R)	400V	280V	400V
MURH10060(R)	600V	420V	600V

HALF PACKAGE





Electrical Characteristics @ 25 ℃ Unless Otherwise Specified

Average Forward Current (Per pkg)	$I_{F(AV)}$	100 A	T_C = 140 ℃
Peak Forward Surge Current	I_{FSM}	2000A	8.3ms , half sine
Maximum Instantaneous Forward Voltage * 10020 10040 10060	V_F	1.00V 1.30V 1.70V	I_{FM} = 100A; T_J = 25 ℃
Maximum Reverse Current At Rated DC Blocking Voltage*	I_R	25 uA 3 mA	T_J = 25 ℃ T_J = 125 ℃
Maximum Reverse Recovery Time 10020 10040 10060	T_{rr}	75 ns 90 ns 110 ns	I_F =0.5A, I_R =1.0A, I_{RR} =0.25A
Maximum Thermal Resistance Junction To Case	$R_{\theta jc}$	0.45℃/W	

*Pulse Test:Pulse Width 300 μ sec, Duty Cycle 2%

DIMENSIONS					
	INCHES		MM		NOTE
DIM	MIN	MAX	MIN	MAX	
A	1.515	1.560	38.48	39.62	
B	.725	.775	18.42	19.69	
C	.573	.597	14.55	15.15	
D	1.182	1.192	30.02	30.28	
E	.736	.744	18.70	18.90	
F	.152	.160	3.86	4.061	Ø
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	Ø
L	.120	.130	3.05	3.30	

Figure .1- Typical Forward Characteristics

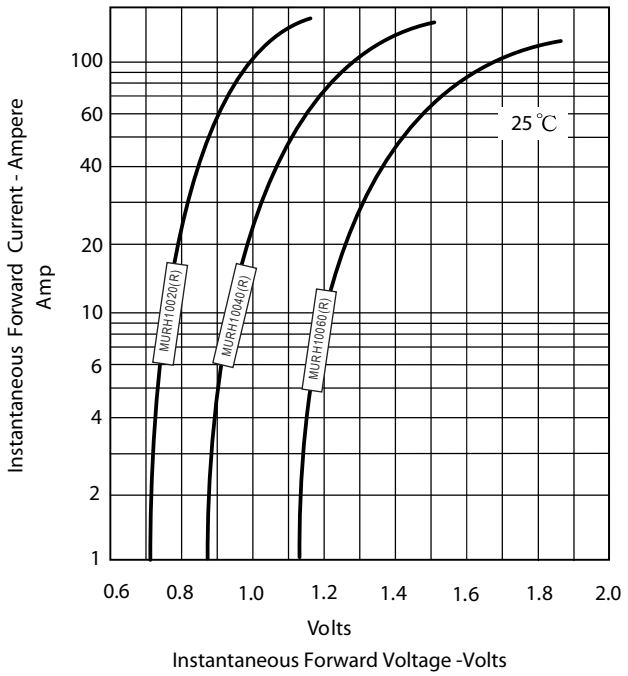


Figure .2- Forward Derating Curve

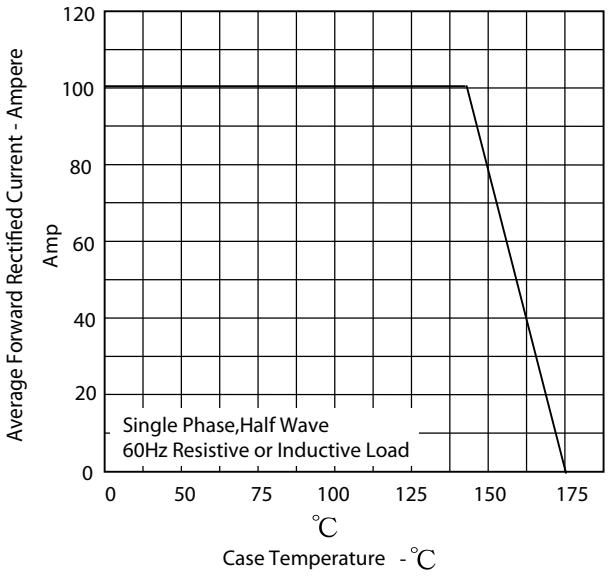


Figure.3- Peak Forward Surge Current

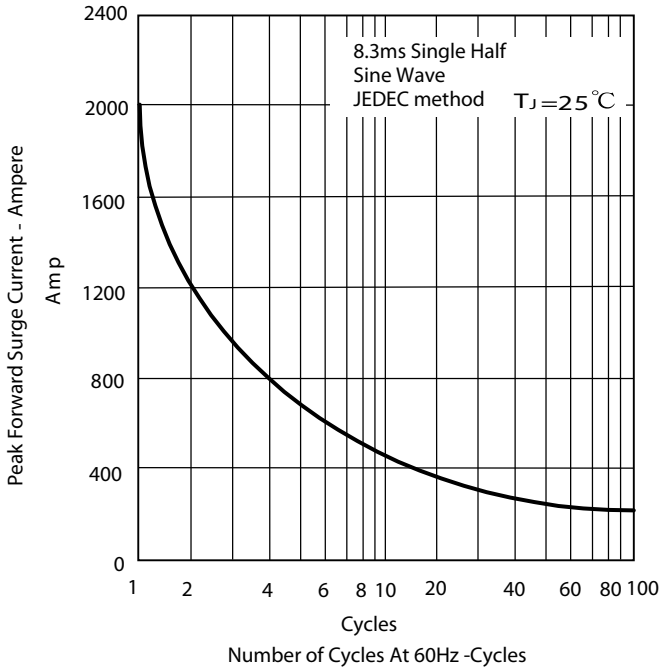
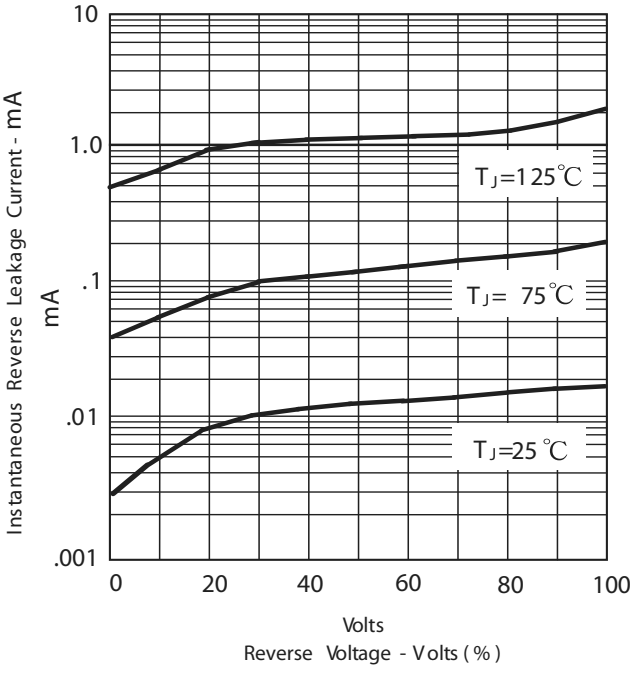


Figure .4 -Typical Reverse Characteristics



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