



DACO SEMICONDUCTOR CO., LTD.

**MURF20005(R)
THRU
MURF20060(R)**

SUPER FAST DIODES MODULE TYPE 200A

Features

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

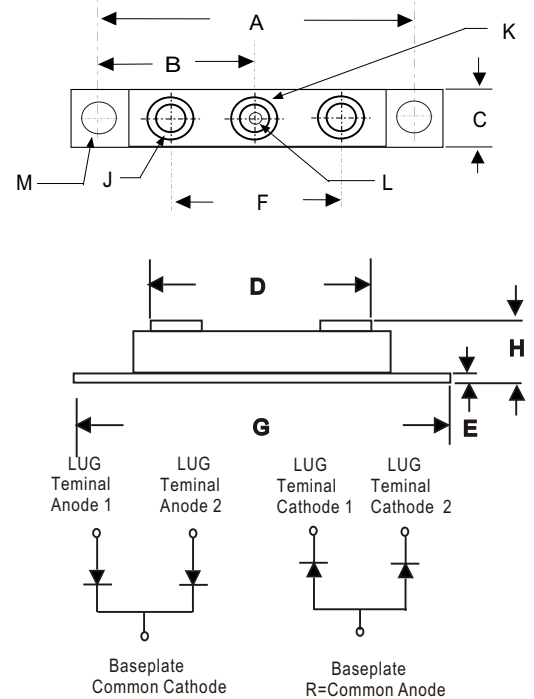
**200Amp Rectifier
50-600 Volts**

FULL PACKAGE

Maximum Ratings

Operating Temperature: -40°C to $+175^{\circ}\text{C}$
Storage Temperature: -40°C to $+175^{\circ}\text{C}$

Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MURF20005(R)	50V	35V	50V
MURF20010(R)	100V	70V	100V
MURF20020(R)	200V	140V	200V
MURF20040(R)	400V	280V	400V
MURF20060(R)	600V	420V	600V



Electrical Characteristics @ 25 °C Unless Otherwise Specified

Average Forward Current Per Pkg	$I_{F(AV)}$	200 A	$T_C = 140^{\circ}\text{C}$
Peak Forward Surge Current Per leg	I_{FSM}	800A	8.3ms, half sine
Maximum Instantaneous Forward Voltage * Per leg 20005~20040 20060	V_F	1.30V 1.50V	$I_{FM} = 100A;$ $T_J = 25^{\circ}\text{C}$
Maximum Instantaneous Reverse Current At Rated DC Blocking Per leg	I_R	25uA 1mA	$T_J = 25^{\circ}\text{C}$ $T_J = 125^{\circ}\text{C}$
Maximum Reverse Recovery Time Per leg 20005~20040 20060	t_{rr}	75 ns 110 ns	$I_F=0.5A, I_R=1.0A,$ $I_{RR}=0.25A$
Typical Junction Capacitance Per leg	C_j	240 PF	Measured at 1.0MHZ, $V_R=4.0V$

DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	3.150	NOM	80.01	NOM	
B	1.565	1.585	39.75	40.26	
C	.700	.800	17.78	20.32	
E	.119	.132	3.02	3.35	
F	1.375	REF	34.92	REF	
G	3.55	3.65	90.17	92.71	
H	.604	.635	15.35	16.35	
J	1/4	- 20	UNC	FULL	
K	.380	.410	9.65	10.41	\emptyset
L	.185	.195	4.70	4.95	\emptyset
M	.275	.295	6.99	7.49	\emptyset

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



Figure .1-Typical Forward Characteristics

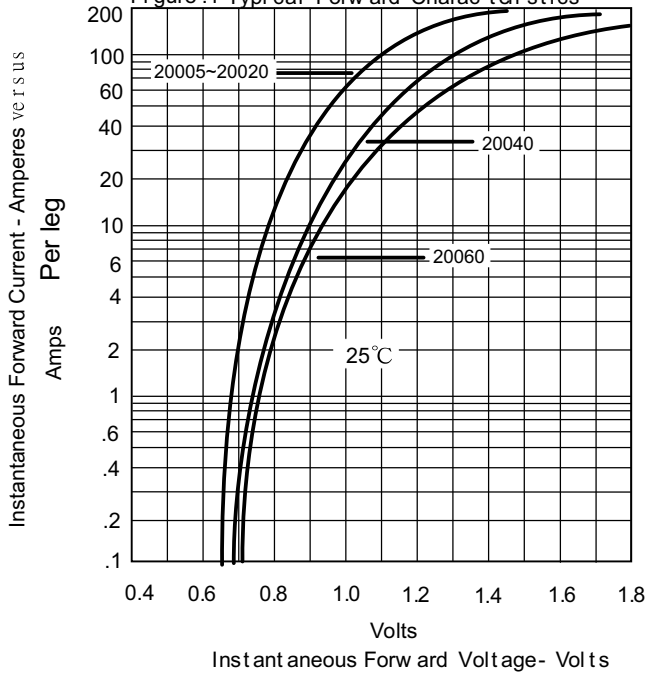


Figure .2-Forward Derating Curve

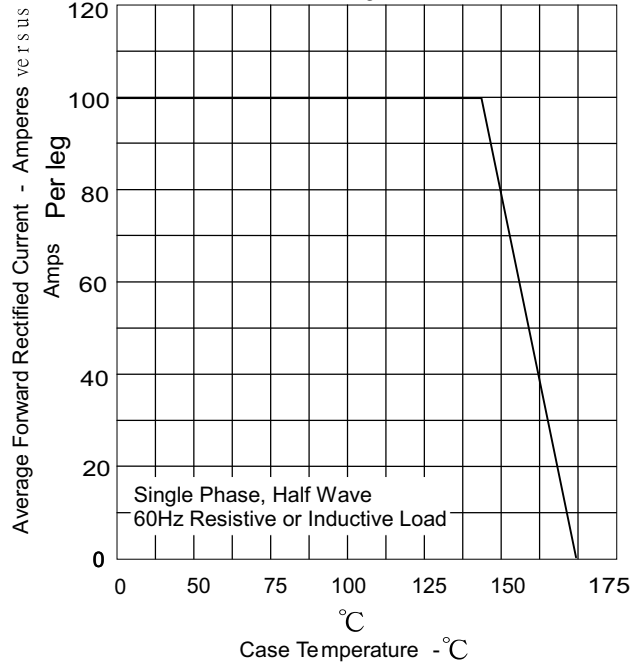


Figure .3-Junction Capacitance

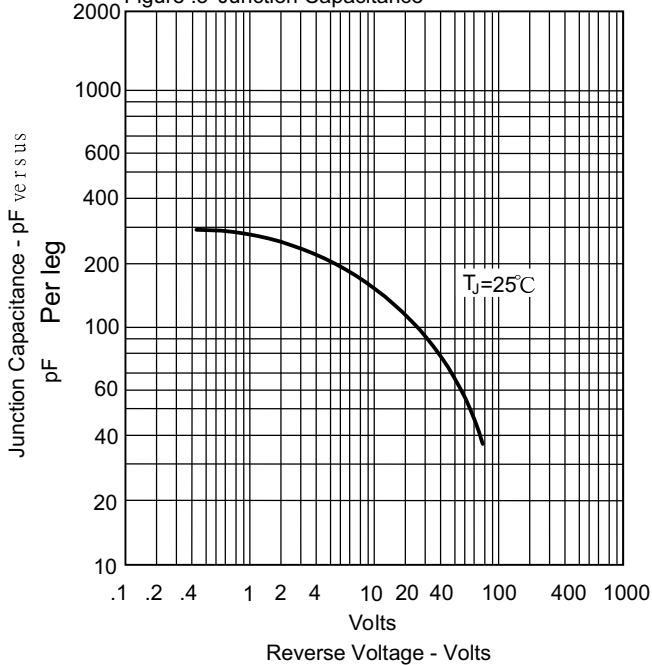


Figure .4-Typical Reverse Characteristics

