DACO SEMICONDUCTOR CO., LTD.

MURA40020CT(R)
THRU
MURA40060CT(R)

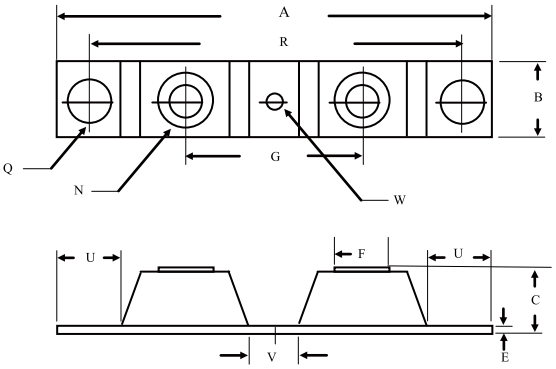
SUPER FAST DIODE MODULE TYPES 400A

Features

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

400 Amp Rectifier
200-600 Volts

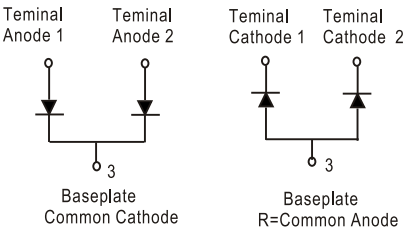
Heavy Twin Tower



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
MURA40020CT(R)	200V	140V	200V
MURA40040CT(R)	400V	280V	400V
MURA40060CT(R)	600V	420V	600V



Electrical Characteristics @ 25 ℃ Unless Otherwise Specified

Average Forward Current (Per pkg)	$I_{F(AV)}$	400A	T_C = 125 ℃
Peak Forward Surge Current (Per leg)	I_{FSM}	3300A	8.3ms , half sine
Maximum Instantaneous Forward Voltage * 40005~40020 40040 40060 (Per leg)	V_F	1.00V 1.30V 1.70V	I_{FM} = 200A; T_J = 25 ℃
Maximum Reverse Current At Rated DC Blocking Voltage (Per leg)	I_R	25 uA 3 mA	T_J = 25 ℃ T_J = 125 ℃
Maximum Reverse Recovery Time 40005~40020 40040 40060 (Per leg)	T_{rr}	150 ns 180 ns 240 ns	I_F =0.5A, I_R =1.0A, I_{RR} =0.25A
Maximum Thermal Resistance Junction To Case (Per leg)	$R_{\theta jc}$	0.35 ℃/W	

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

DIM	Inches		Millimeters	
	Min	Max	Min	Max
A	-----	3.64	-----	92.3
B	1.06	1.067	26.9	27.1
C	-----	0.740	-----	18.8
E	0.134	0.14	3.4	3.55
F	0.520	0.527	13.2	13.4
G	1.49	BSC	38.0	BSC
N	1/4-20 UNC FULL			
Q	0.275	0.290	6.99	7.37
R	3.150	BSC	80.01	BSC
U	0.512	-----	13.0	-----
V	0.449	0.472	11.4	12.0
W	0.180	0.195	4.57	4.95

Figure .1- Typical Forward Characteristics

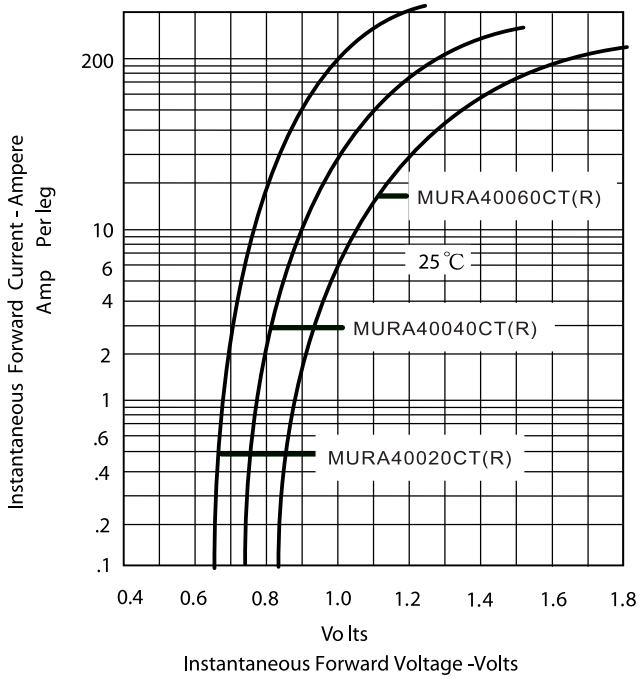


Figure .2- Forward Derating Curve

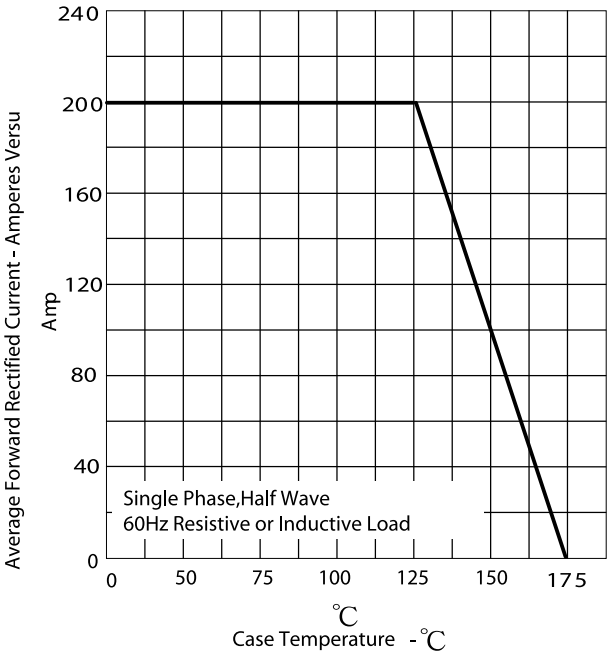


Figure.3- Peak Forward Surge Current

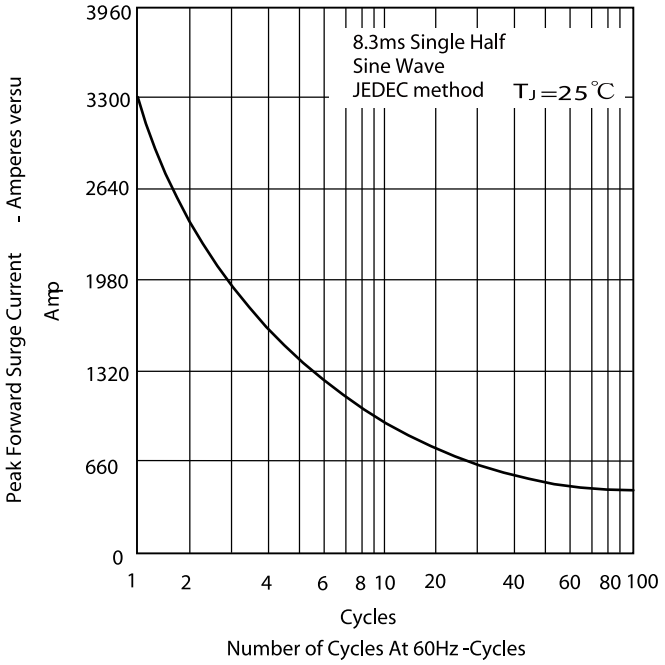


Figure .4 -Typical Reverse Characteristics