



**DACO SEMICONDUCTOR CO., LTD.**

**MBRS400100CT**

**SUPER FAST DIODES MODULE TYPE 400A**

**Features**

High Surge Capability  
Types Up to 100V  $V_{RRM}$

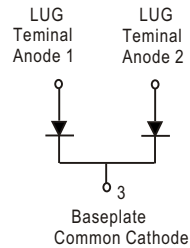
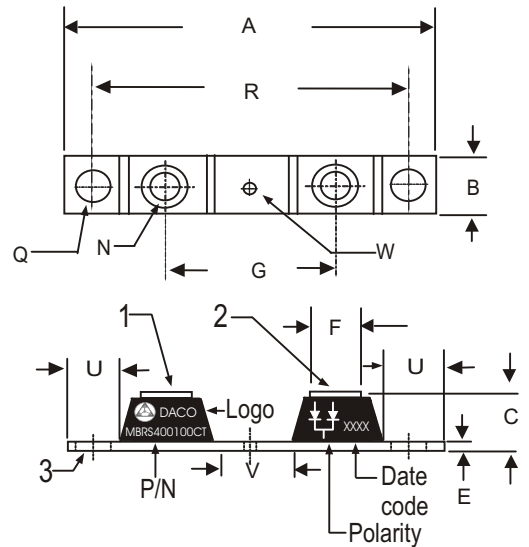
**Maximum Ratings**

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

Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBRS400100CT	100V	70V	100V

**400Amp Rectifier  
100 Volts**

**TWIN TOWER**



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

Average Forward Current Per Pkg	$I_{F(AV)}$	400A	$T_C = 140^{\circ}\text{C}$
Peak Forward Surge Current Per leg	$I_{FSM}$	2000A	8.3ms, half sine
Maximum Instantaneous Forward Voltage * Per leg	$V_F$	0.90V	$I_{FM} = 200A;$ $T_J = 25^{\circ}\text{C}$
Maximum Instantaneous Reverse Current At Rated DC Blocking Per leg	$I_R$	50uA 1mA	$T_J = 25^{\circ}\text{C}$ $T_J = 125^{\circ}\text{C}$

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

DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	----	3.630	----	92.20	
B	0.700	0.800	17.78	20.32	
C	----	0.650	----	16.51	
E	0.120	0.130	3.05	3.30	
F	0.490	0.510	12.45	12.95	
G	1.379	BSC	35.02	BSC	
H	----	----	----	----	
N	1/4 -20 UNC FULL				
Q	0.275	0.290	6.99	7.37	2 PL
R	3.150	BSC	80.01	BSC	
U	0.600	----	15.24	----	
V	0.312	0.370	7.92	9.40	
W	0.180	0.195	4.57	4.95	



Figure .1-Typical Forward Characteristics

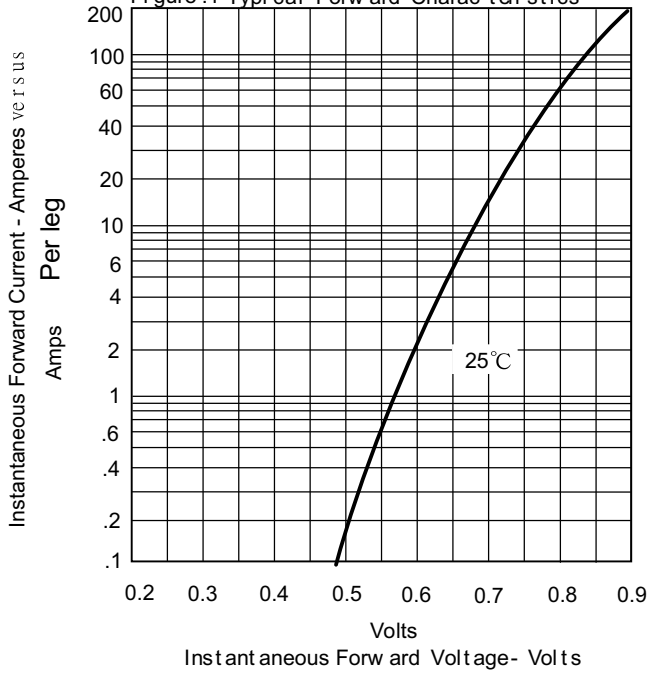


Figure .2-Forward Derating Curve

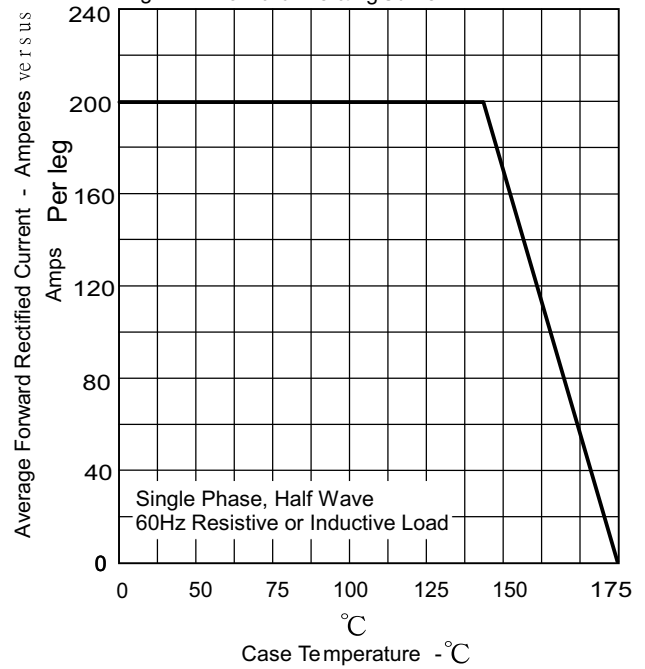


Figure.3-Peak Forward Surge Current

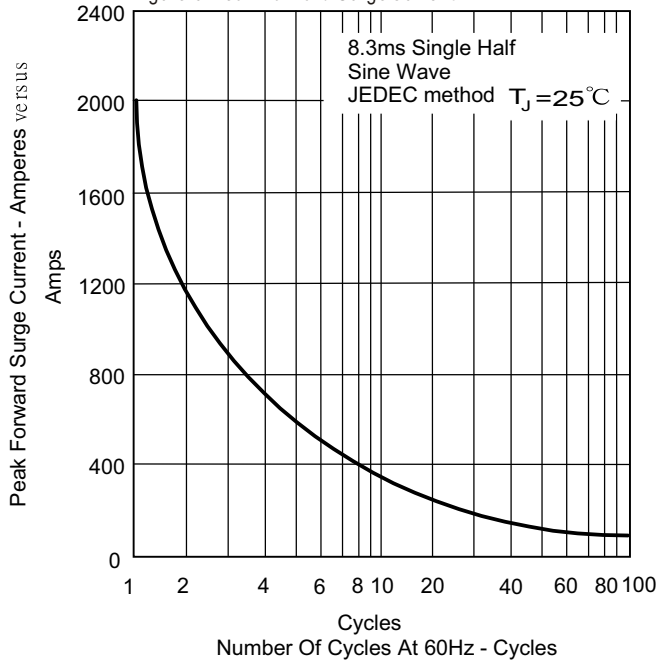


Figure .4-Typical Reverse Characteristics

