

SCHOTTKY DIODES MODULE TYPE 400A

Features

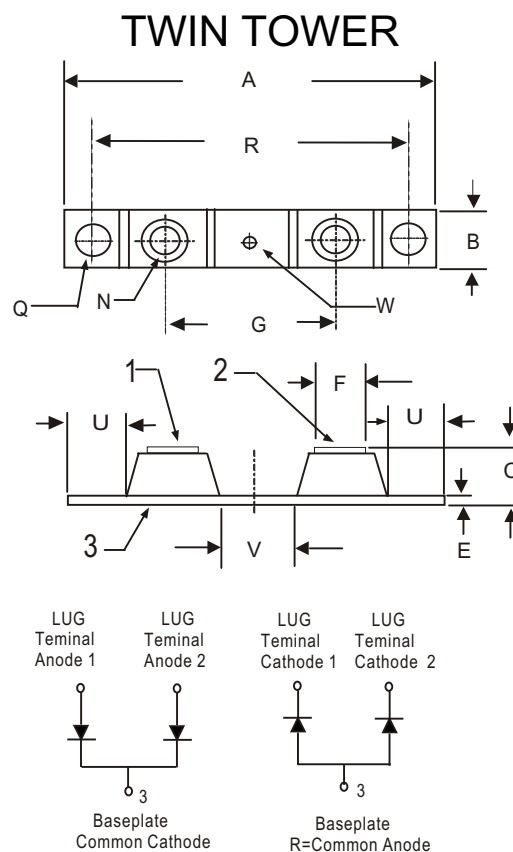
High Surge Capability
Types Up to 100V V_{RRM}

**400Amp Rectifier
20-100 Volts**

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
MBR40020CT(R)	20V	14V	20V
MBR40030CT(R)	30V	21V	30V
MBR40035CT(R)	35V	25V	35V
MBR40040CT(R)	40V	28V	40V
MBR40045CT(R)	45V	32V	45V
MBR40060CT(R)	60V	42V	60V
MBR40080CT(R)	80V	56V	80V
MBR400100CT(R)	100V	70V	100V



Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current (Per pkg)	$I_{F(AV)}$	400A	$T_C = 125^{\circ}\text{C}$
Peak Forward Surge Current (Per leg)	I_{FSM}	3000A	8.3ms, half sine
Maximum Instantaneous Forward Voltage NOTE (1)	V_F	0.65V 0.75V 0.84V	(MBR40020CT-MBR40045CT) (MBR40060CT) (MBR40080CT-MBR400100CT) $I_{FM} = 200A; T_J = 25^{\circ}\text{C}$
Maximum Instantaneous Reverse Current At Rated DC Blocking Voltage (Per leg)	I_R	5.0 mA 200 mA	$T_J = 25^{\circ}\text{C}$ $T_J = 125^{\circ}\text{C}$
Maximum Thermal Resistance Junction To Case (Per leg)	$R_{\theta jc}$	0.8 $^{\circ}\text{C/W}$	

NOTE :

(1) Pulse Test: Pulse Width 300 usec, Duty Cycle < 2%

DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	----	3.360	----	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

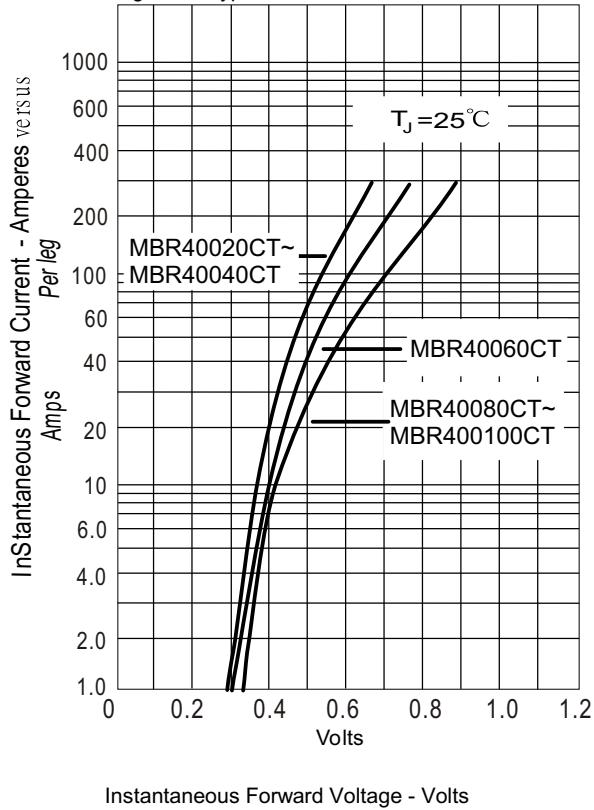


Figure .2- Forward Derating Curve

