



SUPER FAST DIODE MODULE TYPE

Features

- High Surge Capability
- Isolation Type Package
- Electrically Isolation base plate

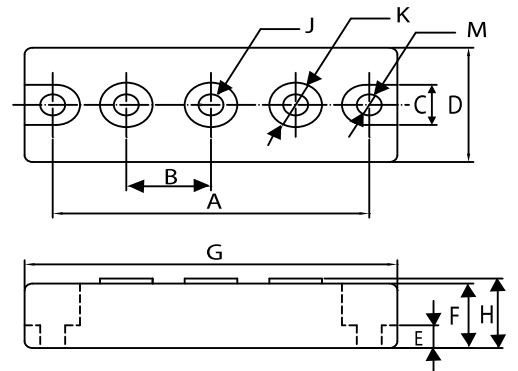
300 Amp Rectifier
1200 Volt

Maximum Ratings

Operating Temperature: -55 °C to +175 °C
Storage Temperature: -55 °C to +175 °C

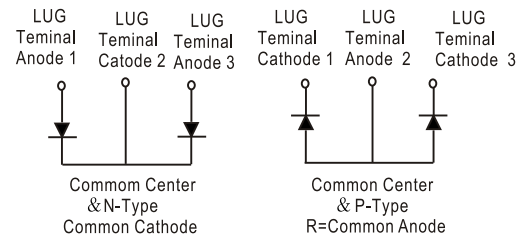
Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum DC Blocking Voltage
MURTA300120(R)	1200V	1200V

HEAVY THREE TOWER



Electrical Characteristics @ 25 °C Unless Otherwise Specified

Average Forward Current (Per pkg)	$I_{F(AV)}$	300 A	$T_C = 100^\circ C$
Peak Forward Surge Current (Per leg)	I_{FSM}	2750A	8.3ms , half Sine
Maximum Instantaneous Forward Voltage * (Per leg)	V_F	2.6V	$I_{FM} = 150A;$ $T_J = 25^\circ C$
Maximum Instantaneous Reverse Current At Rated DC Blocking Voltage (Per leg)	I_R	25 μA 5 mA	$T_J = 25^\circ C$ $T_J = 125^\circ C$
Maximum Reverse Recovery Time (Per leg)	T_{rr}	150ns	$I_F = 0.5A, I_R = 1.0A,$ $I_{RR} = 0.25A$
Maximum Thermal Resistance Junction To Case (Per leg)	$R_{\theta jc}$	0.40 °C/W	
Weight		193g	



DIM	DIMENSIONS			
	Inches		Millimeters	
	Min	Max	Min	Max
A	3.150	NOM	80.01	NOM
B	.872	.892	22.15	22.65
C	.465	.479	11.82	12.18
D	1.337	1.356	33.95	34.45
E	.230	.234	5.84	6.16
F	.725	REF	18.42	REF
G	3.668	3.768	93.17	95.71
H	--	.791	--	20.10
J	1/4-20 UNC FULL			
K	.509	.538	12.92	13.68
M	.238	.258	6.05	6.55

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



Figure .1- Typical Forward Characteristics

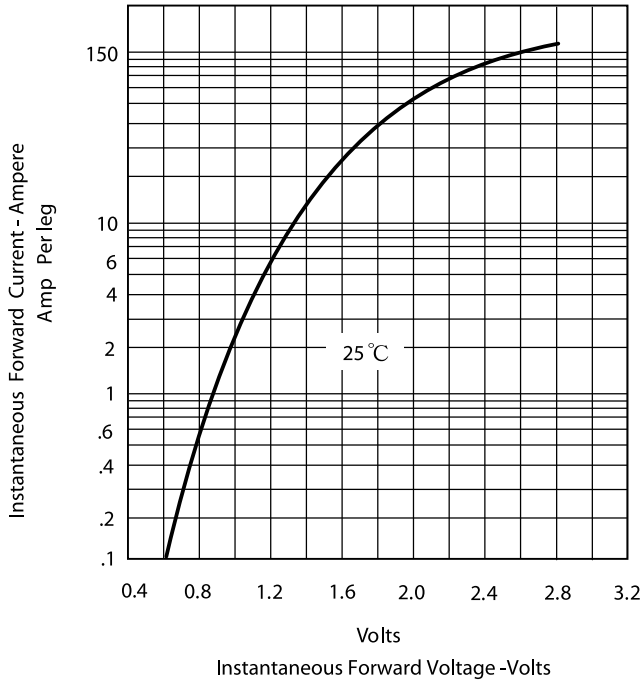


Figure .2- Forward Derating Curve

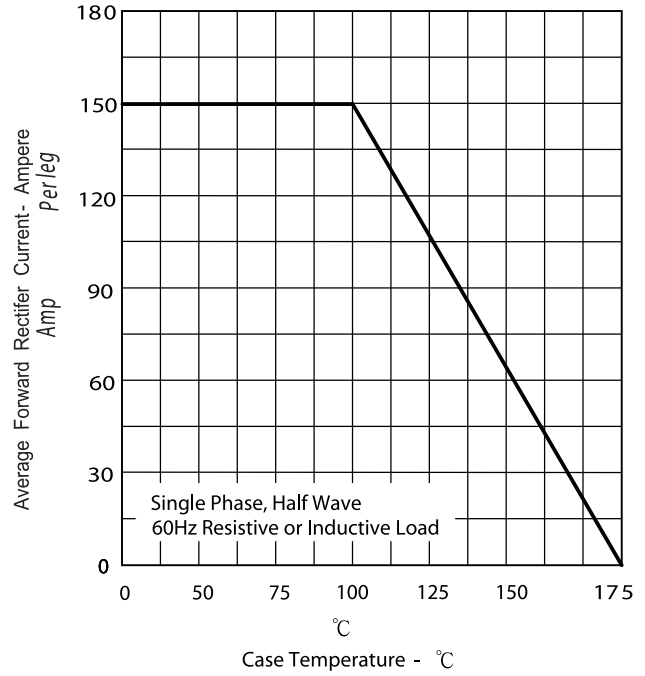


Figure .3- Peak Forward Surge Current

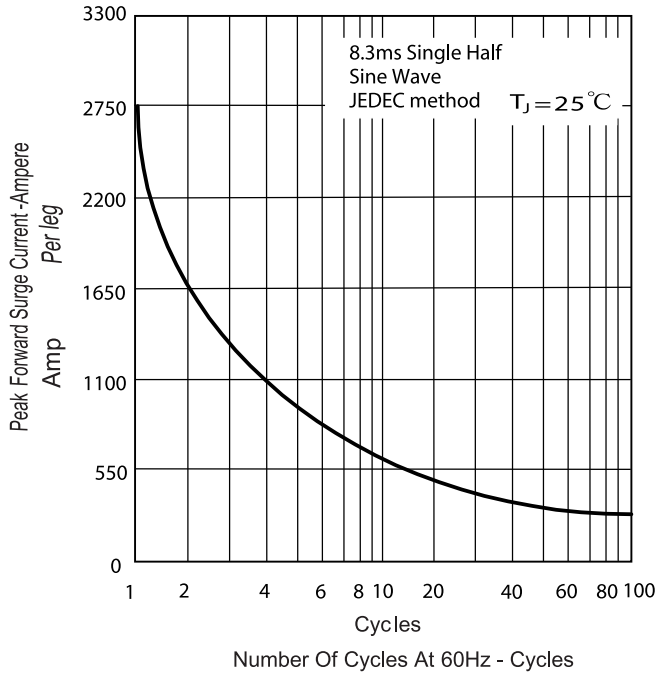
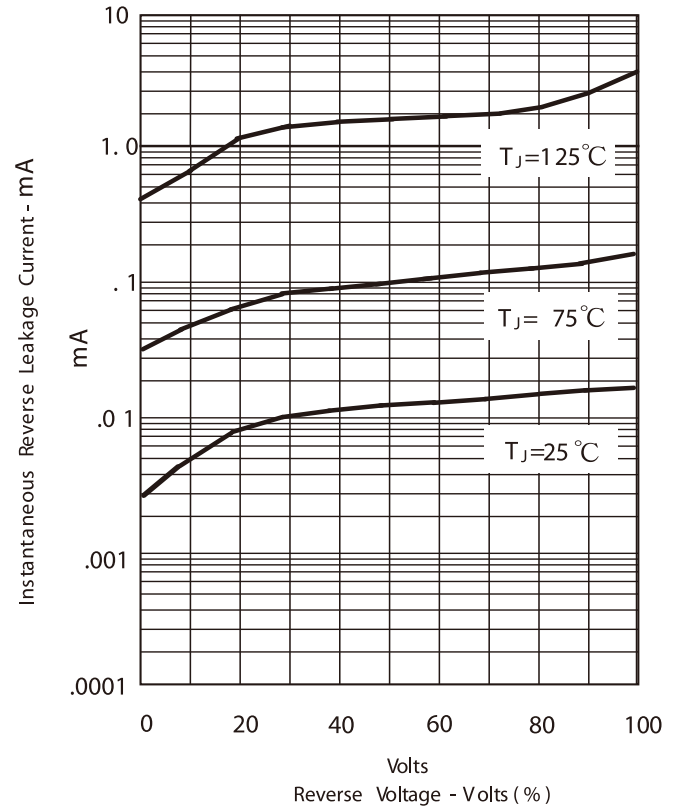


Figure .4 -Typical Reverse Characteristics





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