DACO SEMICONDUCTOR CO.,LTD.

MURI2X121-04A

SUPER FAST DIODE MODULE TYPE 2X120A

Features

High Surge Capability
Type 400V V_{RRM}
Isolation Type Package
Electrically Isolation base plate

SOT-227

Maximum Ratings

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

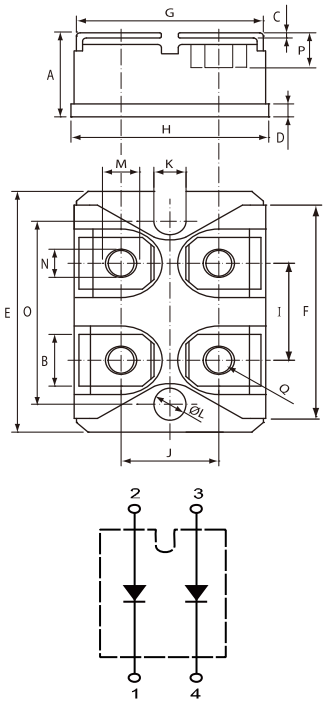
Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MURI2X121-04A	400V	280V	400V

Electrical Characteristics @ 25 ℃ Unless Otherwise Specified.

Characteristic	Unit	Ratings	Test Conditions
Average Forward Current	$I_{F(AV)}$	120A	T_C=100℃
Peak Forward Surge Current	I_{FSM}	2100A	8.3ms,half sine
Isolation Voltage	V_{iso}	2500V	A.C. 1 minute
Maximum Thermal Resistance Junction To Case	Rθjc	0.38℃/W	

Characteristic	Unit	Typ.	Max.	Test Conditions
Maximum Instantaneous Forward Voltage*	V_F	1.0V	1.125V 0.95V	I_{FM}=120A;T_J=25℃ I_{FM}=120A;T_J=150℃
Maximum Instantaneous Reverse Current At Rated DC Blocking Voltage*	I_R		25uA 3mA	T_J=25℃ T_J=150℃
Maximum Reverse Recovery Time	Trr		100ns	I_F=0.5A, I_R=1.0A I_{RR}=0.25A

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



MURI 2X121 – xxA

DIMENSIONS				
DIM	INCHES		MM	
	MIN	MXA	MIN	MXA
A	.500	.535	12.70	13.60
B	.307	.322	7.80	8.20
C	.029	.033	.75	.84
D	.073	.082	1.85	2.10
E	1.487	1.502	37.80	38.20
F	1.250	1.258	31.75	32.00
G	.931	.956	23.65	24.30
H	.996	1.007	25.30	25.60
I	.586	.594	14.90	15.10
J	.492	.516	12.50	13.10
K	.161	.169	4.10	4.30
L	.161	.169	4.10	4.30
M	.181	.191	4.60	4.95
N	.165	.177	4.20	4.50
O	1.184	1.192	30.10	30.30
P	.217	.244	5.50	6.20
Q	M4*8			

Figure.1 - Typical Forward Characteristics

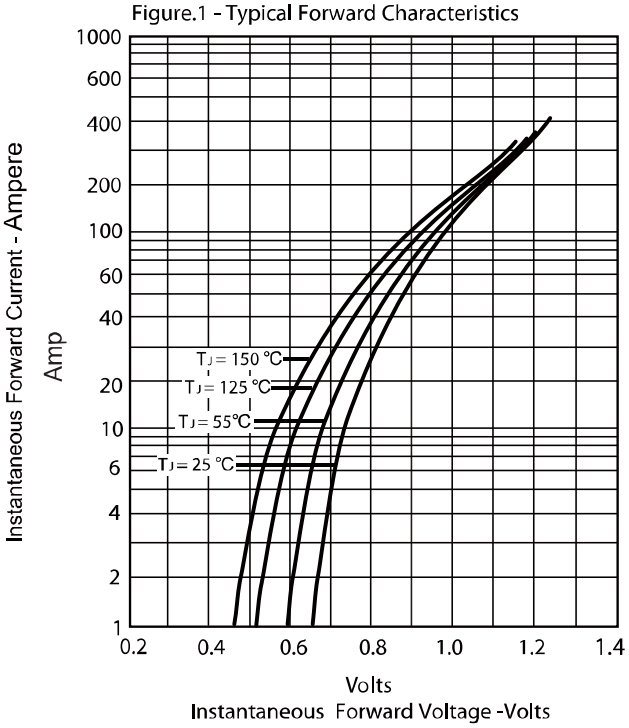


Figure.2 - Forward Derating Curve

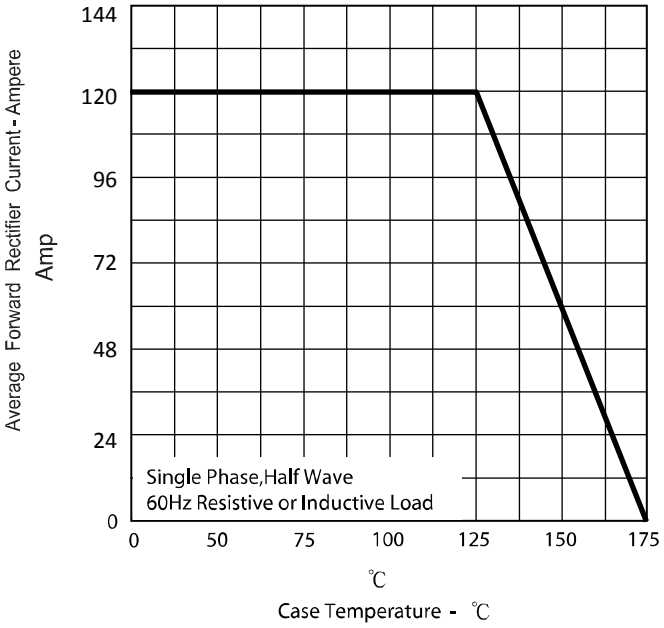


Figure.3 - Peak Forward Sur ɡ Current

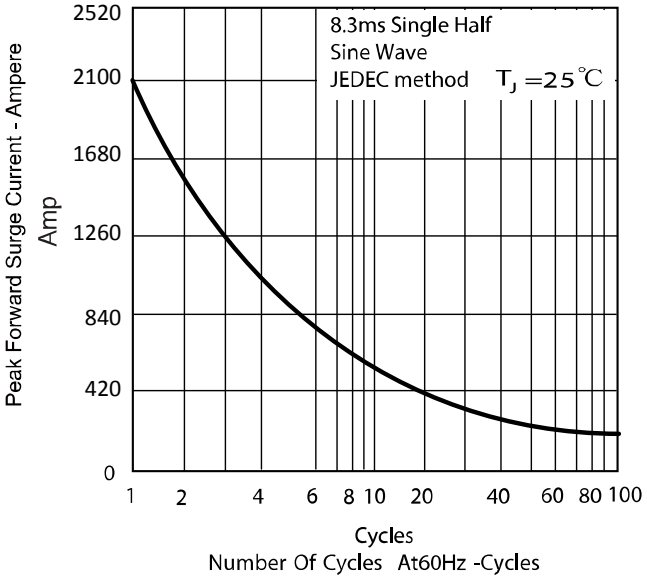
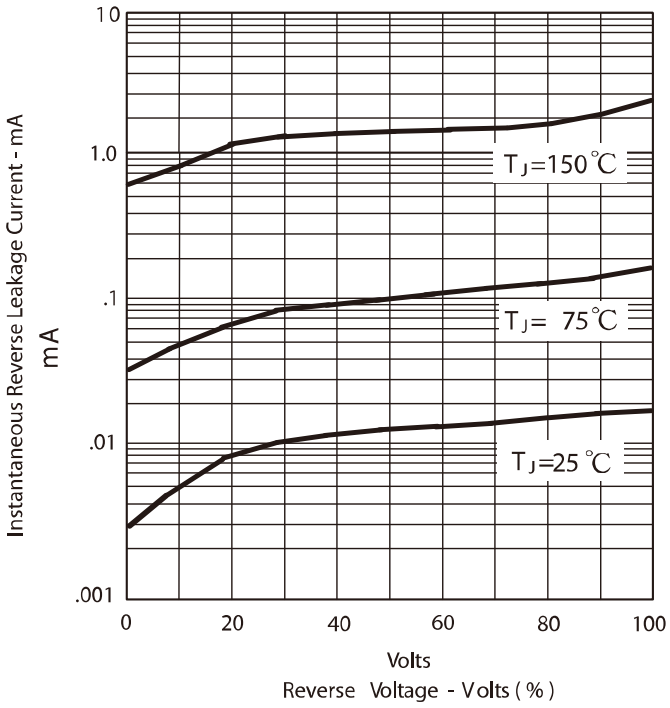


Figure .4 -Typical Reverse Characteristics



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