DACO SEMICONDUCTOR CO.,LTD.

MURI2X100-04A

SUPER FAST DIODE MODULE TYPE 2X100A

Features

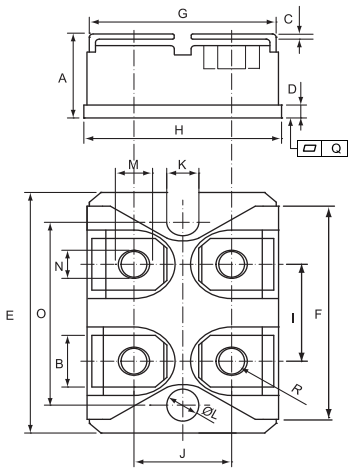
- High Surge Capability
- Type 400V V_{RRM}
- Isolation Type Package
- Electrically Isolation base plate
- RoHS compliant

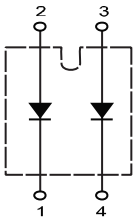
SOT-227

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
MURI2X100-04A	400V	280V	400V





MURI 2X100 – xxA

Electrical Characteristics @ 25 ℃ Unless Otherwise Specified.

Average Forward Current	$I_{F(AV)}$	100 A	T_C=125 ℃
Peak Forward Surge Current	I_{FSM}	1600 A	8.3 ms, half sine
Maximum Instantaneous Forward Voltage*	V_F	1.3 V	I_{FM}=100A; T_J=25 ℃
Maximum Instantaneous Reverse Current At Rated DC Blocking Voltage*	I_R	25 uA 3 mA	T_J=25 ℃ T_J=150 ℃
Maximum Reverse Recovery Time	Trr	90 ns	I_F=0.5A, I_R=1.0A I_{RR}=0.25A
Isolation Voltage	V_{iso}	2500 V	A.C. 1 minute
Maximum Thermal Resistance Junction To Case	Rθjc	0.4 ℃/W	
Mounting torque	N-m	1.3	M4 Screw

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

DIMENSIONS				
	INCHES		MM	
	MIN	MAX	MIN	MAX
A	0.460	0.483	11.68	12.28
B	0.307	0.323	7.80	8.20
C	0.030	0.033	0.75	0.85
D	0.071	0.081	1.80	2.05
E	1.488	1.504	37.80	38.20
F	1.248	1.260	31.70	32.00
G	0.917	0.957	23.30	24.30
H	0.996	1.008	25.30	25.60
I	0.579	0.602	14.70	15.30
J	0.492	0.516	12.50	13.10
K	0.161	0.169	4.10	4.30
L	0.161	0.169	4.10	4.30
M	0.181	0.197	4.60	5.00
N	0.165	0.181	4.20	4.60
O	1.181	1.197	30.00	30.40
Q	-0.002	0.004	-0.05	0.10
R	M4*8			

Figure .1- Typical Forward Characteristics

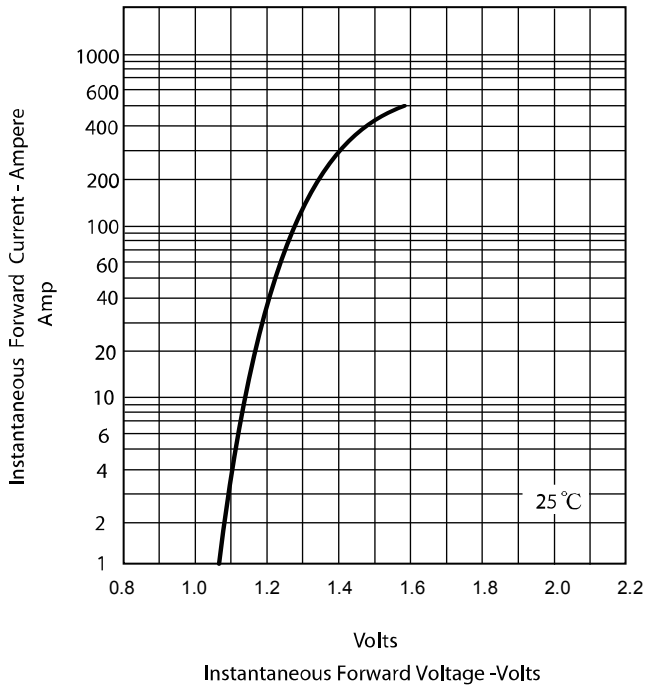


Figure.2 - Forward Derating Curve

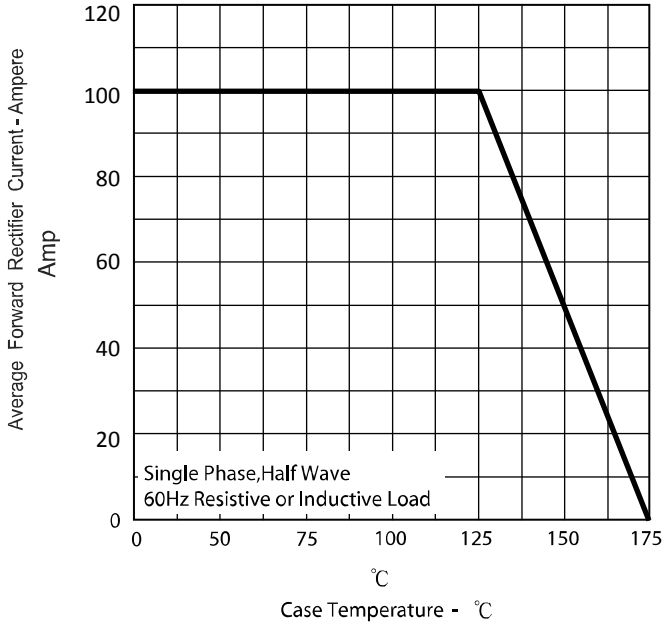


Figure.3 - Peak Forward Surge Current

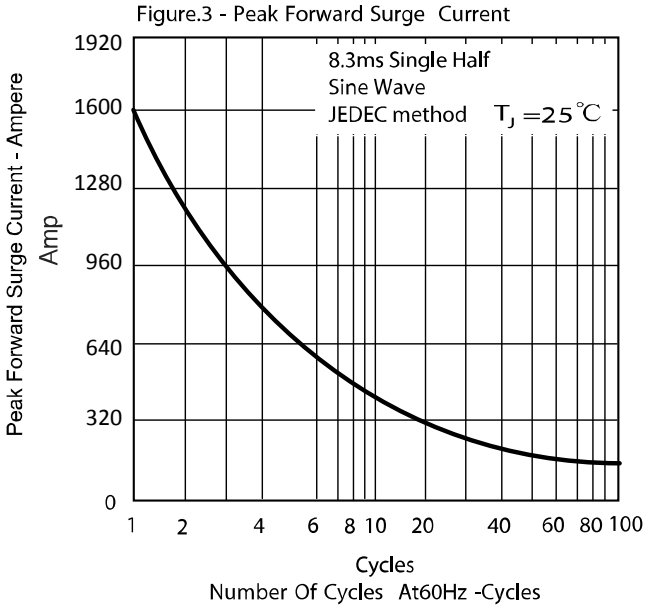
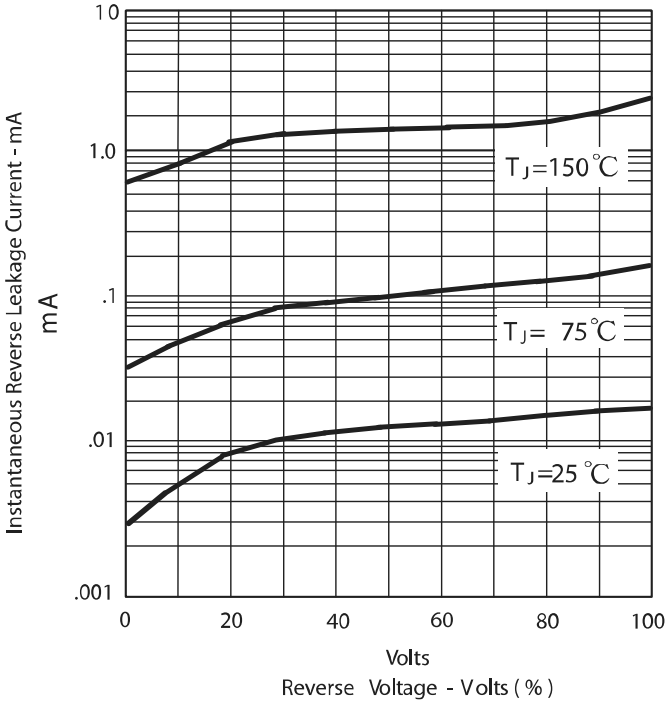


Figure .4 -Typical Reverse Characteristics



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