MURI2X121-04A

SUPER FAST DIODE MODULE TYPE 2X120A / 400V

Features

High Surge Capability
Type 400V V_{RRM}
Isolation Type Package
Electrically Isolation Base Plate
RoHS Compliant

Maximum Ratings

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

Storage Temperature: -55°C to +175°C

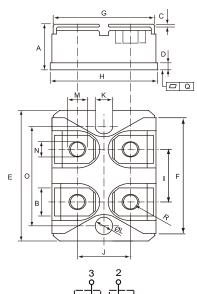
Part Number	Part Number Part Number Peak Reverse Voltage		Maximum DC Blocking Voltage
MURI2X121-04A	400V	280V	400V

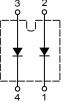
Electrical Characteristics @25°C Unless Otherwise Specified

Average Forward (Per pkg) Current (Per diode)	I F(AV)	240A 120A	Tc =125°C
Peak Forward Surge Current (Per diode)	IFSM	2100A	8.3ms, half sine
Instantaneous Forward Voltage* (Per diode)	VF	Typ. 1.00V Max.1.125V Max. 0.95V	I _{FM} =120A ; T _J =25°C I _{FM} =120A ; T _J =25°C I _{FM} =120A ; T _J =150°C
Maximum Instantaneous Reverse Current At Rated DC Blockig Voltage* (Per diode)	lR	25uA 3mA	TJ =25°C TJ =150°C
Maximum Reverse Recovery Time	Trr	100ns	I _F = 0.5A, I _R = 1.0A I _{RR} = 0.25A
Isolation Voltage	Viso	2500V	A.C. 1 minute
Maximum Thermal Resistance Junction To Case (Per diode)	Røjc	0.38°C/W	
Mounting Torque		1.3Nm	M4 Screw

^{*}Pulse Test: Pulse Width 300 μ sec, Duty Cycle < 2%





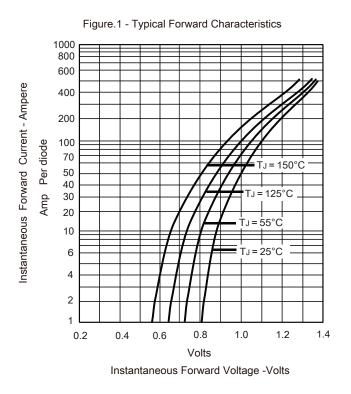


MURI	2X121	_	xxA

DIMENSIONS					
	INCHES		MM		
	MIN	MAX	MIN	MAX	
Α	0.460	0.483	11.68	12.28	
В	0.307	0.323	7.80	8.20	
С	0.030	0.033	0.75	0.85	
D	0.071	0.081	1.80	2.05	
Е	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	
Н	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	
М	0.181	0.197	4.60	5.00	
N	0.165	0.181	4.20	4.60	
0	1.181	1.197	30.00	30.40	
Q	-0.002	0.004	-0.05	0.10	
R	M4*8				



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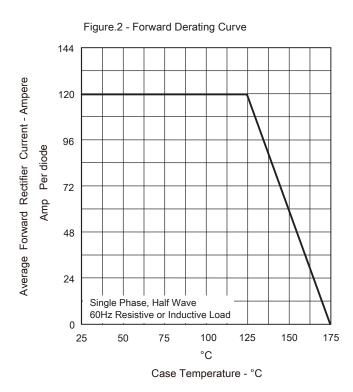
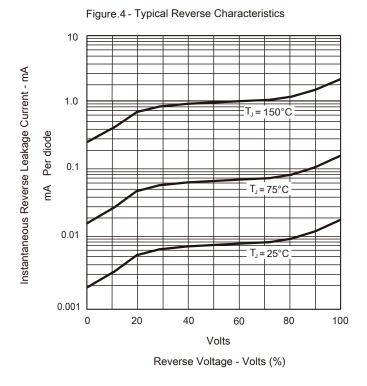


Figure.3 - Peak Forward Surge Current 2520 8.3ms Single Half Sine Wave JEDEC method $T_J = 25^{\circ}C$ 2100 Peak Forward Surge Current - Ampere 1680 Amp Per diode 1260 840 420 0 2 8 10 20 60 80 100 4 40 Cycles Number of Cycles at 60Hz - Cycles





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