

SUPER FAST DIODE MODULE TYPE 2X60A / 1700V

Features

High Surge Capability Type 1700V 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 Voltage		Maximum RMS Voltage	Maximum DC Blocking Voltage	
MURI2X60-17A	1700V	1190V	1700V	

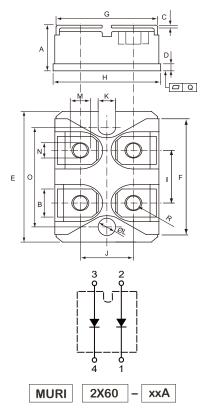
Electrical Characteristics @25°C Unless Otherwise Specified

		-	_
Average Forward (Per pkg) Current (Per diode)	lf(AV)	120A 60A	Tc =125°C
Peak Forward Surge Current (Per diode)	IFSM	2000A	8.3ms, half sine
Maximum (Per diode) Instantaneous Forward Voltage*	Vf	2.8V	Іғм =60А ; Т」 =25°С
Maximum Instantaneous Reverse Current At Rated DC Blockig Voltage* (Per diode)	IR	20uA 3mA	T」=25°C T」=150°C
Maximum Reverse Recovery Time	Trr	200ns	IF =0.5A, IR =1.0A IRR =0.25A
Isolation Voltage (between All Terminals and Baseplate)	Viso	2500V	A.C. 1 minute
Maximum Thermal Resistance Junction To Case (Per diode)	R øjc	0.8°C/W	
Mounting Torque		1.3Nm 1.1Nm	To heatsink To terminal

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

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DIMENSIONS					
	INCHES		M	М	
	MIN	MAX	MIN	MAX	
A	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	
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	
Н	0.996	1.008	25.30	25.60	
1	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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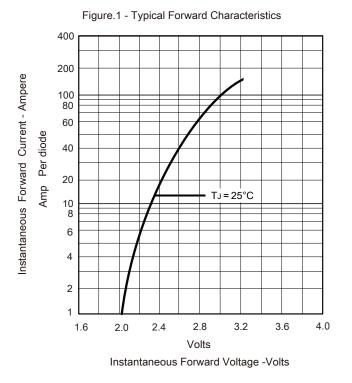
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DYNAMIC CHARACTERISTICS

Symbol	Characteristic	Test Conditions	MIN	TYP	MAX	UNIT
Trr	Reverse Recovery Time $I_F = 1A$, $di_F/dt = -100A/\mu s$, $V_R = 30V$, $T_J = 25^{\circ}C$		-	68	-	nc
Trr	Reverse Recovery Time		-	174	-	ns
Qrr	Reverse Recovery Charge	I _F = 60A, di _F /dt = -200A/μs V _R = 800V, T _C = 25°C	-	783	-	nC
I _{RRM}	Maximum Reverse Recovery Current		-	9.8	-	Amps
T _{rr}	Reverse Recovery Time	L = 604 di /dt = 2004/up	-	250	-	ns
Qrr	Reverse Recovery Charge	I _F = 60A, di _F /dt = -200A/µs V _R = 800V, T _C = 125°C	-	3450	-	nC
I _{RRM}	Maximum Reverse Recovery Current		-	22	-	Amps
Trr	Reverse Recovery Time	L = 604 di /dt = 10004/up	-	150	-	ns
Qrr	Reverse Recovery Charge	I _F = 60A, di _F /dt = -1000A/µs V _R = 800V, T _C = 125°C	-	6654	-	nC
I _{RRM}	Maximum Reverse Recovery Current		-	70	-	Amps



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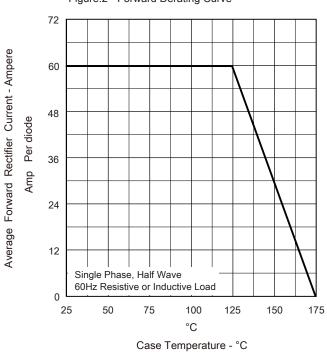
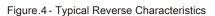
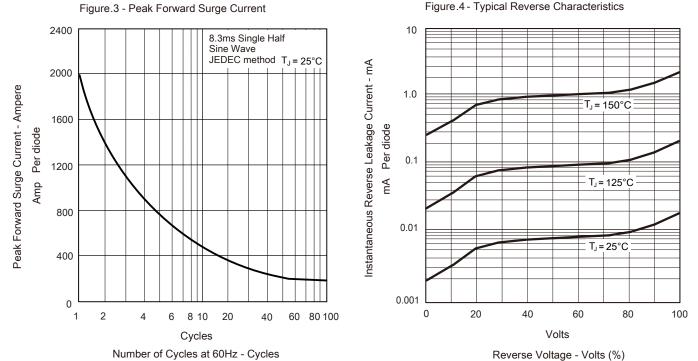


Figure.2 - Forward Derating Curve





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