

SUPER FAST DIODE MODULE TYPE 2X100A / 400V

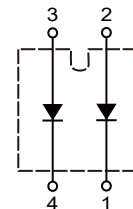
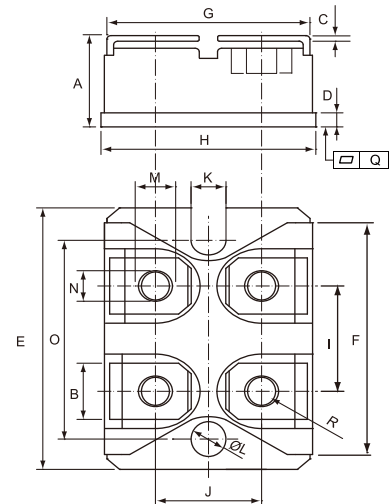
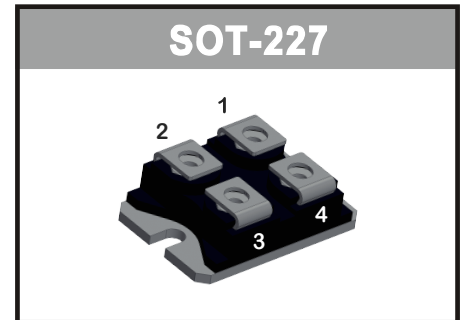
Features

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

Maximum Ratings

- Junction Operating Temperature : -55°C to $+150^{\circ}\text{C}$
- Storage Temperature : -55°C to $+150^{\circ}\text{C}$

Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MURI2X102-04A	400V	280V	400V



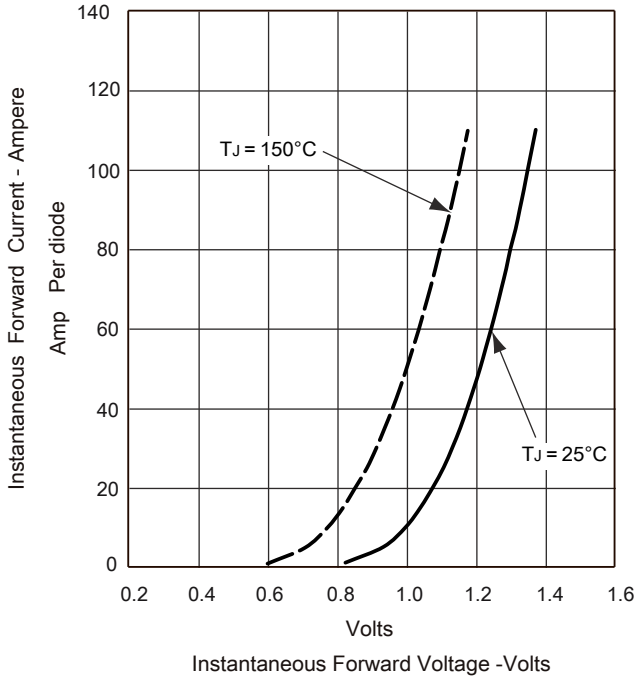
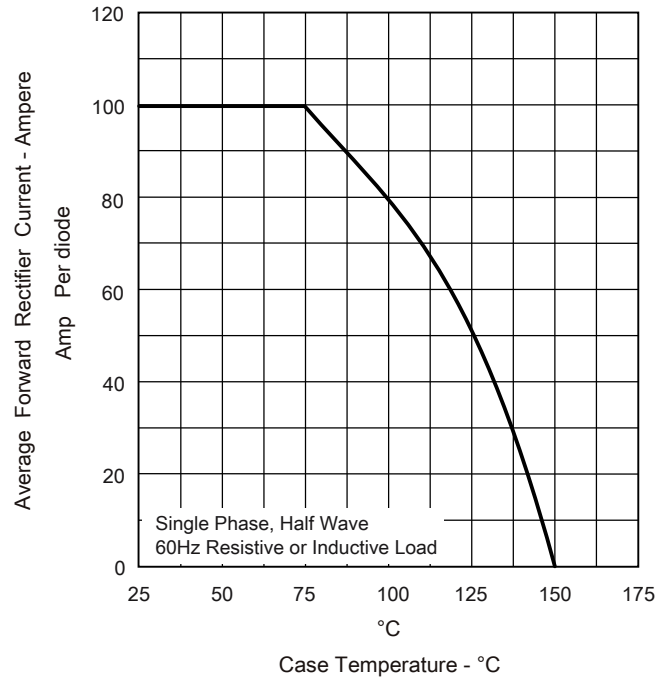
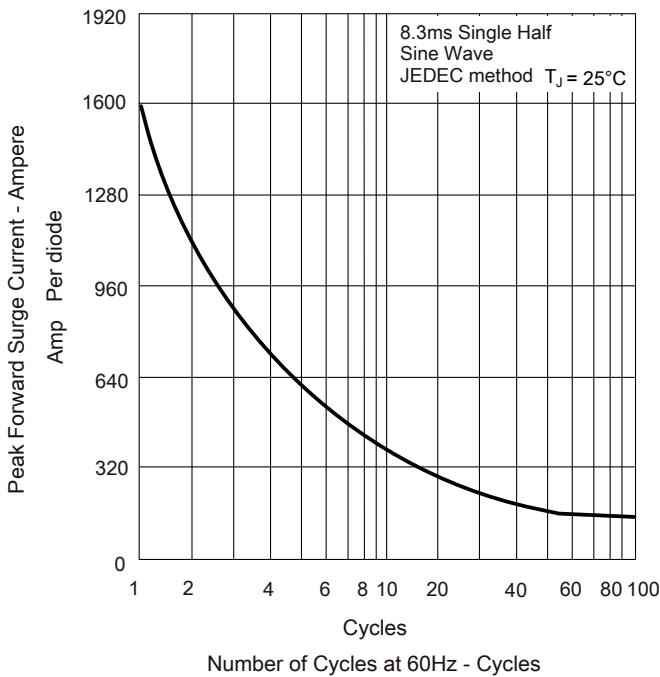
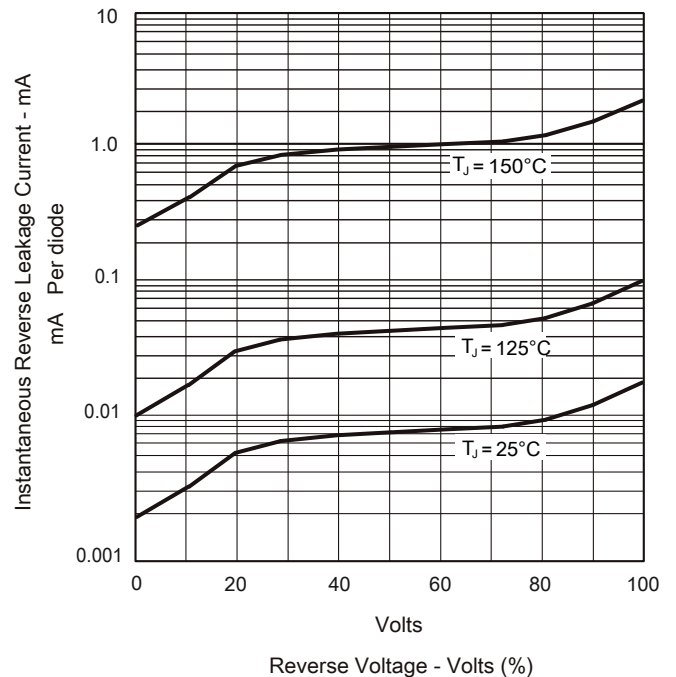
MuRI 2X102 - xxA

Electrical Characteristics @25°C Unless Otherwise Specified

Average Forward Current (Per pkg) (Per diode)	$I_{F(AV)}$	200A 100A	$T_C = 75^{\circ}\text{C}$
Peak Forward Surge Current (Per diode)	I_{FSM}	1600A	8.3ms, half sine
Maximum Instantaneous Forward Voltage* (Per diode)	V_F	1.35V 1.15V	$I_{FM} = 100A ; T_J = 25^{\circ}\text{C}$ $I_{FM} = 100A ; T_J = 150^{\circ}\text{C}$
Maximum Instantaneous Reverse Current At Rated DC Blockig Voltage* (Per diode)	I_R	25uA 3mA	$T_J = 25^{\circ}\text{C}$ $T_J = 150^{\circ}\text{C}$
Maximum Reverse Recovery Time	T_{rr}	80ns	$I_F = 0.5A, I_R = 1.0A$ $I_{RR} = 0.25A$
Isolation Voltage	V_{iso}	2500V	A.C. 1 minute
Maximum Thermal Resistance Junction To Case (Per diode)	$R_{\theta jc}$	0.6°C/W	
Mounting Torque		1.3Nm	M4 Screw

*Pulse Test: Pulse Width 300 μ sec, Duty Cycle < 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 - Maximum Forward Characteristics

Figure.2 - Forward Derating Curve

Figure.3 - Peak Forward Surge Current

Figure.4 - Typical Reverse Characteristics


Disclaimer

DACO Semiconductor reserves the right to make modifications, enhancements, improvements, corrections, or other changes to this document and any product described herein without prior notice. For the most up-to-date version, please visit our website.

DACO Semiconductor makes no warranty, representation, or guarantee regarding the suitability of its products for any particular purpose, nor does DACO Semiconductor assume any liability arising out of the application or use of any product or circuit, and specifically disclaims any liability, including without limitation special, consequential or incidental damages.

Purchasers are responsible for its products and applications using DACO Semiconductor products, including compliance with all laws, regulations, and safety requirements or standards, regardless of any support or application information provided by DACO Semiconductor. "Typical" parameters that may be provided in DACO Semiconductor datasheets and/or specifications can and do vary in different applications and actual performance may vary over time. All operating parameters, including "Typical" must be validated for each customer application by the customer's technical experts.

DACO Semiconductor products are not designed, authorized, or warranted to be suitable for use in life support, life-critical or safety-critical systems, or equipment, nor in applications where failure or malfunction of DACO Semiconductor's product can reasonably be expected to result in personal injury, death or severe property or environmental damage. DACO Semiconductor accepts no liability for the inclusion and/or use of DACO Semiconductor's products in such equipment or applications and therefore such inclusion and/or use is at the customer's own risk.

Purchasers who buy or use DACO Semiconductor products for any unintended or unauthorized applications are required to indemnify and absolve DACO Semiconductor, its suppliers, and distributors from any claims, costs, damages, expenses, and reasonable attorney fees arising out of, directly or indirectly, any claim of personal injury or death associated with such unintended or unauthorized use, even if such claim alleges that DACO Semiconductor was negligent regarding the design or manufacture of the part.

No part of this publication may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying and recording, or by any information storage and retrieval system, or otherwise, without the prior written permission of DACO Semiconductor Co., Ltd.