Preferred Device

SWITCHMODE™ Power Rectifier

... designed for use in switching power supplies, inverters and as free wheeling diodes, these state-of-the-art devices have the following features:

- Ultrafast 50 Nanosecond Recovery Times
- 175°C Operating Junction Temperature
- Low Forward Voltage
- Low Leakage Current
- High Temperature Glass Passivated Junction

Mechanical Characteristics

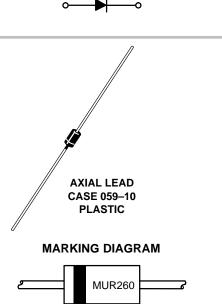
- Case: Epoxy, Molded
- Weight: 0.4 gram (approximately)
- Finish: All External Surfaces Corrosion Resistant and Terminal Leads are Readily Solderable
- Lead and Mounting Surface Temperature for Soldering Purposes: 220°C Max. for 10 Seconds, 1/16″ from case
- Shipped in plastic bags, 1000 per bag
- Available Tape and Reeled, 5000 per reel, by adding a "RL" suffix to the part number
- Polarity: Cathode Indicated by Polarity Band
- Marking: MUR260



ON Semiconductor®

http://onsemi.com





MAXIMUM RATINGS

Rating	Symbol	Value	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	600 -	Volts
Average Rectified Forward Current (Note 1.) (Square Wave Mounting Method #3 Per Note 3.)	I _{F(AV)}	2.0 @ T _A = 60°C	Amps
Non-Repetitive Peak Surge Current (Surge applied at rated load conditions, halfwave, single phase, 60 Hz)	I _{FSM}	35	Amps
Operating Junction Temperature and Storage Temperature Range	T _J , T _{stg}	65 to +175	°C

1. Pulse Test: Pulse Width = 300 μ s, Duty Cycle \leq 2.0%.

ORDERING INFORMATION

MUR260 = Device Code

Device	Device Package	
MUR260	Axial Lead	1000 Units/Bag
MUR260RL	Axial Lead	5000/Tape & Reel

Preferred devices are recommended choices for future use and best overall value.

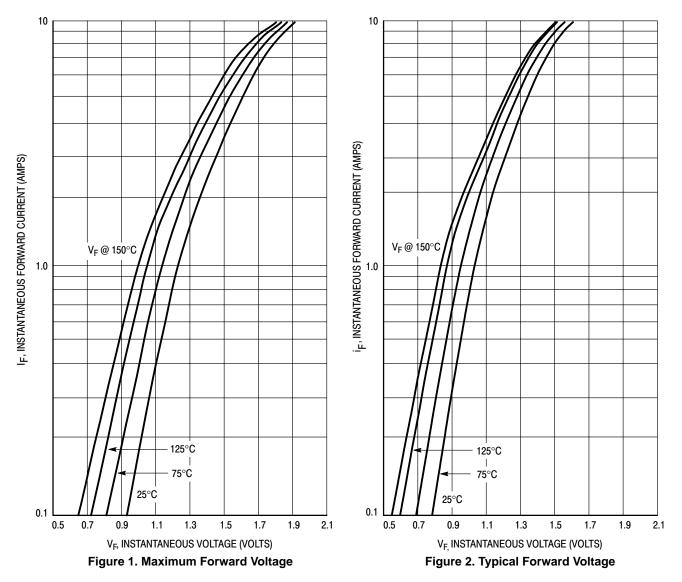
THERMAL CHARACTERISTICS

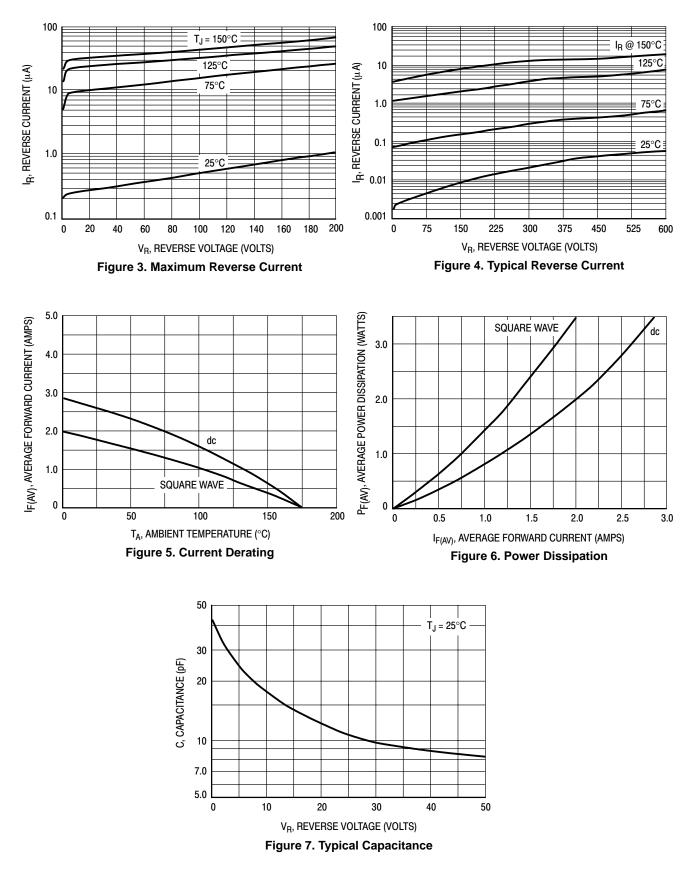
Characteristic	Symbol	Value	Unit
Maximum Thermal Resistance, Junction to Ambient	R_{\thetaJA}	See Note 3.	°C/W

ELECTRICAL CHARACTERISTICS

Maximum Instantaneous Forward Voltage (Note 2.) ($I_F = 2.0 \text{ Amp}, T_J = 150^{\circ}\text{C}$) ($I_F = 2.0 \text{ Amp}, T_J = 25^{\circ}\text{C}$)	VF	1.15 1.35	Volts
Maximum Instantaneous Reverse Current (Note 2.) (Rated dc Voltage, $T_J = 150^{\circ}C$) (Rated dc Voltage, $T_J = 25^{\circ}C$)	i _R	150 5.0	μΑ
Maximum Reverse Recovery Time $(I_F = 1.0 \text{ Amp, di/dt} = 50 \text{ Amp/}\mu\text{s})$ $(I_F = 0.5 \text{ Amp, } I_R = 1.0 \text{ Amp, } I_{REC} = 0.25 \text{ A})$	t _{rr}	75 50	ns
Maximum Forward Recovery Time $(I_F = 1.0 \text{ A}, \text{ di/dt} = 100 \text{ A/}\mu\text{s}, I_{REC} \text{ to } 1.0 \text{ V})$	t _{fr}	50	ns

2. Pulse Test: Pulse Width = 300 μ s, Duty Cycle \leq 2.0%.



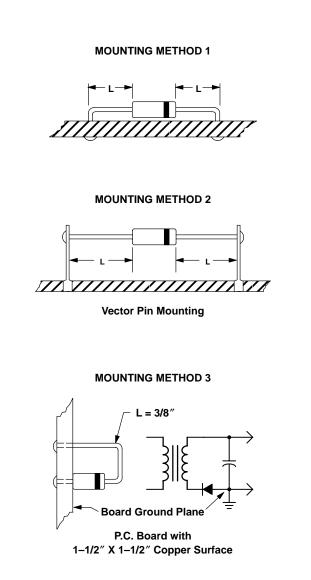


NOTE 3. — AMBIENT MOUNTING DATA

Data shown for thermal resistance junction to ambient $(R_{\theta JA})$ for the mountings shown is to be used as typical guideline values for preliminary engineering or in case the tie point temperature cannot be measured.

TYPICAL VALUES FOR $R_{\theta J \textbf{A}}$ IN STILL AIR

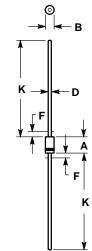
Mounti	ng	Lead Length, L			
Method		1/8	1/4	1/2	Units
1		52	65	72	°C/W
2	R_{\thetaJA}	67	80	87	°C/W
3			50		°C/W



PACKAGE DIMENSIONS

MINI MOSORB

CASE 59-10 **ISSUE S**



NOTES: 1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982. 2. CONTROLLING DIMENSION: INCH. 3. 59–04 OBSOLETE, NEW STANDARD 59–09. 4. 59–03 OBSOLETE, NEW STANDARD 59–10. 5. ALL RULES AND NOTES ASSOCIATED WITH JEDEC DO-41 OUTLINE SHALL APPLY 6. POLARITY DENOTED BY CATHODE BAND. 7. LEAD DIAMETER NOT CONTROLLED WITHIN F DIMENSION.

	INCHES		MILLIMETERS		
DIM	MIN	MAX	MIN	MAX	
Α	0.161	0.205	4.10	5.20	
В	0.079	0.106	2.00	2.70	
D	0.028	0.034	0.71	0.86	
F		0.050		1.27	
K	1.000		25.40		

<u>Notes</u>

<u>Notes</u>

SWITCHMODE is a trademark of Semiconductor Components Industries, LLC.

ON Semiconductor and **ON** are registered trademarks of Semiconductor Components Industries, LLC (SCILLC). SCILLC reserves the right to make changes without further notice to any products herein. SCILLC makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does SCILLC assume any liability arising out of the application or use of any product or circuit, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages. "Typical" parameters which may be provided in SCILLC data sheets and/or specifications can and do vary in different applications and actual performance may vary over time. All operating parameters, including "Typicals" must be validated for each customer application by customer's technical experts. SCILLC does not convey any license under its patent rights nor the rights of others. SCILLC products are not designed, intended, or authorized for use as components in systems intended for surgical implant into the body, or other applications intended to support or sustain life, or for any other application in which the failure of the SCILLC product could create a situation where personal injury or death may occur. Should Buyer purchase or use SCILLC products for any such unintended or unauthorized application, Buyer shall indemnify and hold SCILLC and its officers, employees, subsidiaries, affiliates, and distributors harmless against all claims, costs, damages, and expenses, and reasonable attorney fees arising out of, directly or indirectly, any claim of personal injury or death wits such unintended or unauthorized use, even if such claim alleges that SCILLC was negligent regarding the design or manufacture of the part. SCILLC is an Equal Opportunity/Affirmative Action Employer.

PUBLICATION ORDERING INFORMATION

Literature Fulfillment:

Literature Distribution Center for ON Semiconductor P.O. Box 5163, Denver, Colorado 80217 USA

Phone: 303–675–2175 or 800–344–3860 Toll Free USA/Canada Fax: 303–675–2176 or 800–344–3867 Toll Free USA/Canada Email: ONlit@hibbertco.com

N. American Technical Support: 800-282-9855 Toll Free USA/Canada

JAPAN: ON Semiconductor, Japan Customer Focus Center 2–9–1 Kamimeguro, Meguro–ku, Tokyo, Japan 153–0051 Phone: 81–3–5773–3850 Email: r14525@onsemi.com

ON Semiconductor Website: http://onsemi.com

For additional information, please contact your local Sales Representative.

Copyright © Each Manufacturing Company.

All Datasheets cannot be modified without permission.

This datasheet has been download from :

www.AllDataSheet.com

100% Free DataSheet Search Site.

Free Download.

No Register.

Fast Search System.

www.AllDataSheet.com