imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

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MURS480ET3G

SWITCHMODE Power Rectifiers

Ultrafast "E" Series with High Reverse Energy Capability

These state-of-the-art devices are designed for use in switching power supplies, inverters and as free wheeling diodes.

Features

- 20 mJ Avalanche Energy Guaranteed
- Excellent Protection Against Voltage Transients in Switching Inductive Load Circuits
- Ultrafast 75 Nanosecond Recovery Time
- 175°C Operating Junction Temperature
- Low Forward Voltage
- Low Leakage Current
- High Temperature Glass Passivated Junction
- Reverse Voltage to 800 V
- These Devices are Pb–Free, Halogen Free/BFR Free and are RoHS Compliant

Mechanical Characteristics:

- Case: Epoxy, Molded
- Weight: 217 mg (Approximately)
- Finish: All External Surfaces Corrosion Resistant and Terminal Leads are Readily Solderable
- Lead Temperature for Soldering Purposes: 260°C Max. for 10 Seconds
- Shipped in 16 mm Tape & Reel, 2500 Units per Reel
- Polarity: Polarity Band on Plastic Body Indicates Cathode Lead

MAXIMUM RATINGS

Rating	Symbol	Value	Unit
Peak Repetitive Reverse VoltageWorking Peak Reverse VoltageDC Blocking VoltageMURS480E	V _{RRM} V _{RWM} V _R	800	V
Average Rectified Forward Current	I _{F(AV)}	4.0 @ T _L =110°C	А
Non-Repetitive Peak Surge Current (Surge Applied at Rated Load Conditions Halfwave, Single Phase, 60 Hz)	I _{FSM}	70	A
Operating Junction and Storage Temperature Range	T _J , T _{stg}	–65 to +175	°C

Stresses exceeding those listed in the Maximum Ratings table may damage the device. If any of these limits are exceeded, device functionality should not be assumed, damage may occur and reliability may be affected.



ON Semiconductor®

www.onsemi.com

ULTRAFAST RECTIFIER 4.0 AMPERES, 800 VOLTS



SMC 2-LEAD CASE 403AC

MARKING DIAGRAM



U4 = Specific Device Code A = Assembly Location* Y = Year

- WW= Work Week
- *The Assembly Location code (A) is front side optional. In cases where the Assembly Location is stamped in the package, the front side assembly code may be blank.

ORDERING INFORMATION

Device	Package	Shipping [†]
MURS480ET3G	SMC (Pb–Free)	2500/Tape & Reel

†For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specifications Brochure, BRD8011/D.

MURS480ET3G

THERMAL CHARACTERISTICS

Rating	Symbol	Value	Unit
Maximum Thermal Resistance, Junction-to-Lead		11	°C/W
Maximum Thermal Resistance, Junction-to-Ambient	R_{\thetaJA}	165	°C/W

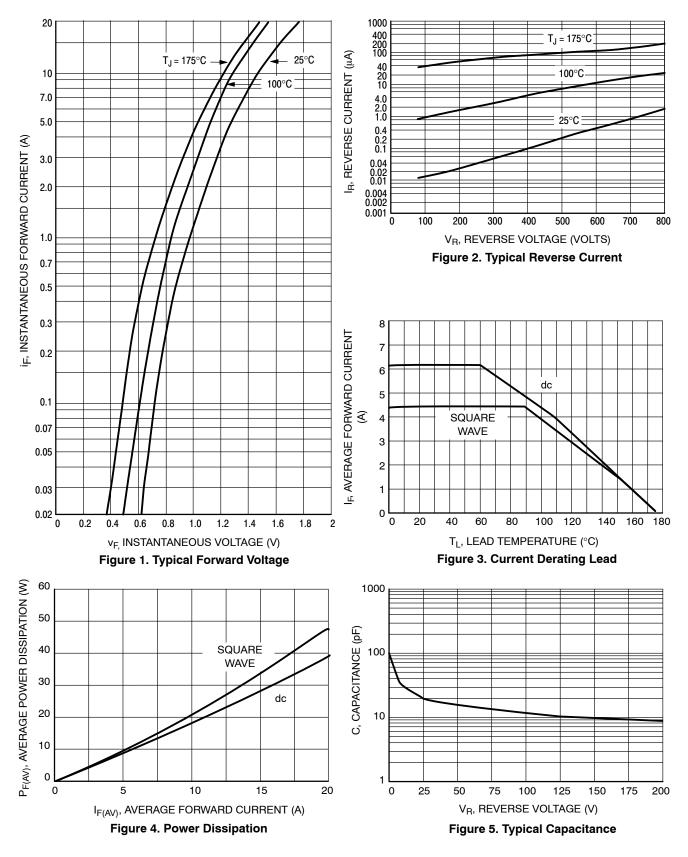
ELECTRICAL CHARACTERISTICS

Characteristic	Symbol	Max	Unit
	v _F	1.53 1.75 1.85	V
Maximum Instantaneous Reverse Current (Note 1) (Rated dc Voltage, $T_J = 150^{\circ}C$) (Rated dc Voltage, $T_J = 25^{\circ}C$)	İR	900 25	μΑ
	t _{rr}	100 75	ns
Maximum Forward Recovery Time (I _F = 1.0 Amp, di/dt = 100 Amp/μs, Recovery to 1.0 V)	t _{fr}	75	ns
Controlled Avalanche Energy	W _{AVAL}	20	mJ

Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions. 1. Pulse Test: Pulse Width = $300 \ \mu$ s, Duty Cycle $\leq 2.0\%$.

MURS480ET3G

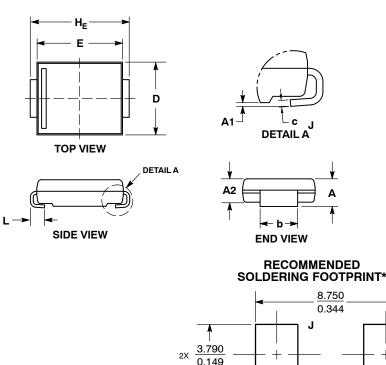
TYPICAL ELECTRICAL CHARACTERISTICS



PACKAGE DIMENSIONS

SMC 2-LEAD CASE 403AC

ISSUE B



NOTES:

DIMENSIONING AND TOLERANCING PER ANME Y14.5M, 1994. CONTROLLING DIMENSION: INCHES.

- 2
- 3.
- DIMENSIONS D AND E DON INCOLES. DIMENSIONS D AND E DON INCT INCLUDE MOLD FLASH. MOLD FLASH SHALL NOT EXCEED 0.254mm PER SIDE. DIMENSIONS D AND E TO BE DETERMINED AT DATUM H. DIMENSION & SHALL BE MEASURED WITHIN THE AREA DETERMINED BY DIMENSION L 5.

	MILLIMETERS		INC	HES
DIM	MIN	MAX	MIN	MAX
Α	1.95	2.61	0.077	0.103
A1	0.05	0.20	0.002	0.008
A2	1.90	2.41	0.075	0.095
b	2.90	3.20	0.114	0.126
с	0.15	0.41	0.006	0.016
D	5.55	6.25	0.219	0.246
Е	6.60	7.15	0.260	0.281
HE	7.75	8.15	0.305	0.321
L	0.75	1.60	0.030	0.063

*For additional information on our Pb-Free strategy and soldering details, please download the ON Semiconductor Soldering and Mounting Techniques Reference Manual, SOLDERRM/D.

2X

2.250

0.089

mm

inches

SCALE 4:1

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