#### MAXIMUM RATINGS

Rating	Symbol	MURS320T3	MURS340T3	MURS360T3	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V <sub>RRM</sub> V <sub>RWM</sub> V <sub>R</sub>	200	400	600	V
Average Rectified Forward Current	I <sub>F(AV)</sub>	3.0 @ T <sub>L</sub> = 140°C 4.0 @ T <sub>L</sub> = 130°C	3.0 @ T <sub>L</sub> = 130°C 4.0 @ T <sub>L</sub> = 115°C	3.0 @ T <sub>L</sub> = 130°C 4.0 @ T <sub>L</sub> = 115°C	A
Non–Repetitive Peak Surge Current (Surge applied at rated load conditions halfwave, single phase, 60 Hz)	I <sub>FSM</sub>	75			A
Operating Junction Temperature	TJ	- 65 to +175			°C

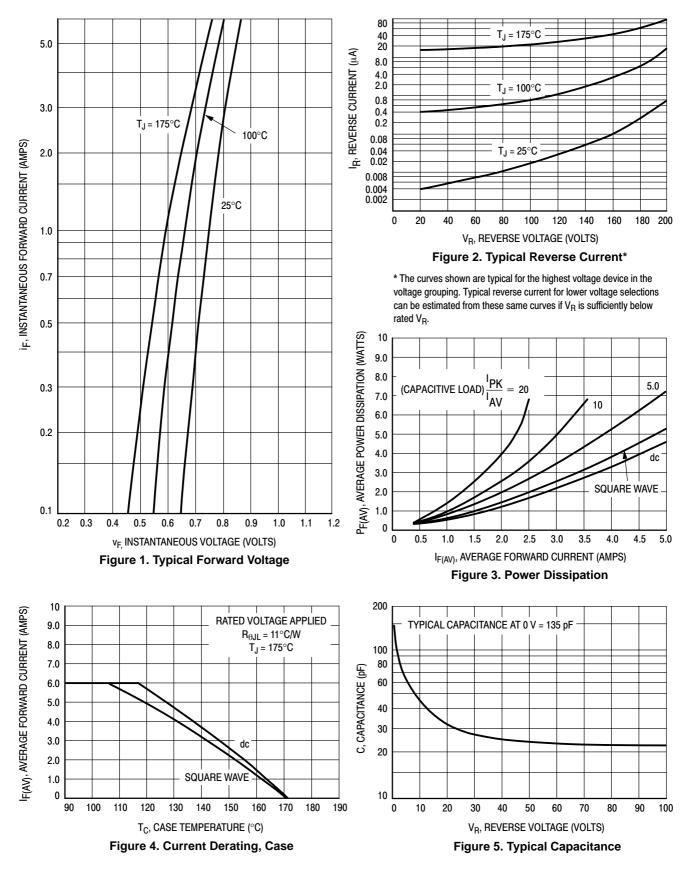
Maximum ratings are those values beyond which device damage can occur. Maximum ratings applied to the device are individual stress limit values (not normal operating conditions) and are not valid simultaneously. If these limits are exceeded, device functional operation is not implied, damage may occur and reliability may be affected.

#### THERMAL CHARACTERISTICS

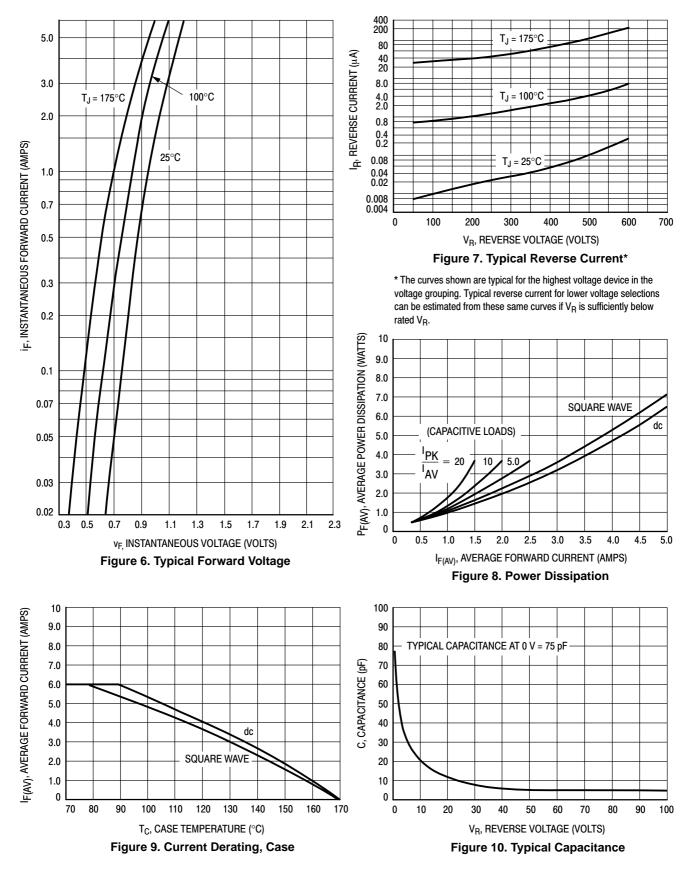
Thermal Resistance, Junction-to-Lead	$R_{\thetaJL}$	11			°C/W
ELECTRICAL CHARACTERISTICS					
$\begin{array}{l} \mbox{Maximum Instantaneous Forward Voltage (Note 1)} \\ (i_F = 3.0 \mbox{ A}, \mbox{ T}_J = 25^{\circ}\mbox{C}) \\ (i_F = 4.0 \mbox{ A}, \mbox{ T}_J = 25^{\circ}\mbox{C}) \\ (i_F = 3.0 \mbox{ A}, \mbox{ T}_J = 150^{\circ}\mbox{C}) \end{array}$	VF	0.875 0.89 0.71	1.25 1.28 1.05	1.25 1.28 1.05	V
Maximum Instantaneous Reverse Current (Note 1) (Rated dc Voltage, $T_J = 25^{\circ}C$ ) (Rated dc Voltage, $T_J = 150^{\circ}C$ )	i <sub>R</sub>	5.0 150	10 250	10 250	μΑ
$\begin{array}{l} \text{Maximum Reverse Recovery Time} \\ (i_F = 1.0 \text{ A, di/dt} = 50 \text{ A/}\mu\text{s}) \\ (i_F = 0.5 \text{ A, }i_R = 1.0 \text{ A, }I_{REC} \text{ to } 0.25 \text{ A}) \end{array}$	t <sub>rr</sub>	35 25	75 50	75 50	ns
Maximum Forward Recovery Time (i <sub>F</sub> = 1.0 A, di/dt = 100 A/µs, Recovery to 1.0 V)	t <sub>fr</sub>	25	50	50	ns

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

#### **MURS320T3**

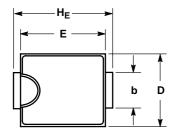


## **MURS340T3, MURS360T3**



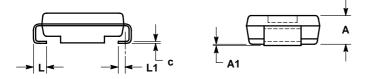
#### PACKAGE DIMENSIONS

SMC PLASTIC PACKAGE CASE 403-03 ISSUE E

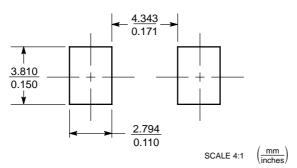


NOTES: 1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982. 2. CONTROLLING DIMENSION: INCH. 3. D DIMENSION SHALL BE MEASURED WITHIN DIMENSION P. 4. 403-01 THRU -02 OBSOLETE, NEW STANDARD 403-03.

	MILLIMETERS			INCHES			
DIM	MIN	NOM	MAX	MIN	NOM	MAX	
Α	1.90	2.13	2.41	0.075	0.084	0.095	
A1	0.05	0.10	0.15	0.002	0.004	0.006	
b	2.92	3.00	3.07	0.115	0.118	0.121	
С	0.15	0.23	0.30	0.006	0.009	0.012	
D	5.59	5.84	6.10	0.220	0.230	0.240	
E	6.60	6.86	7.11	0.260	0.270	0.280	
HE	7.75	7.94	8.13	0.305	0.313	0.320	
L	0.76	1.02	1.27	0.030	0.040	0.050	
L1	0.51 REF			0.020 REF			



**SOLDERING FOOTPRINT\*** 



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

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