MAXIMUM RATINGS

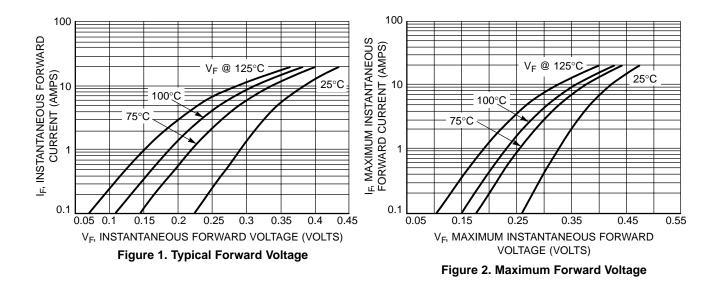
Rating	Symbol	Value	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	10	V
Average Rectified Forward Current (At Rated V_R , $T_L = 110^{\circ}$ C)	Io	2.0	A
Non–Repetitive Peak Surge Current (Surge Applied at Rated Load Conditions Halfwave, Single Phase, 60 Hz)	I _{FSM}	160	A
Storage/Operating Case Temperature Operating Junction Temperature	T _{stg} , T _C T _J	-55 to +125	°C
Voltage Rate of Change (Rated V_R , $T_J = 25^{\circ}C$)	dv/dt	10,000	V/µs

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.

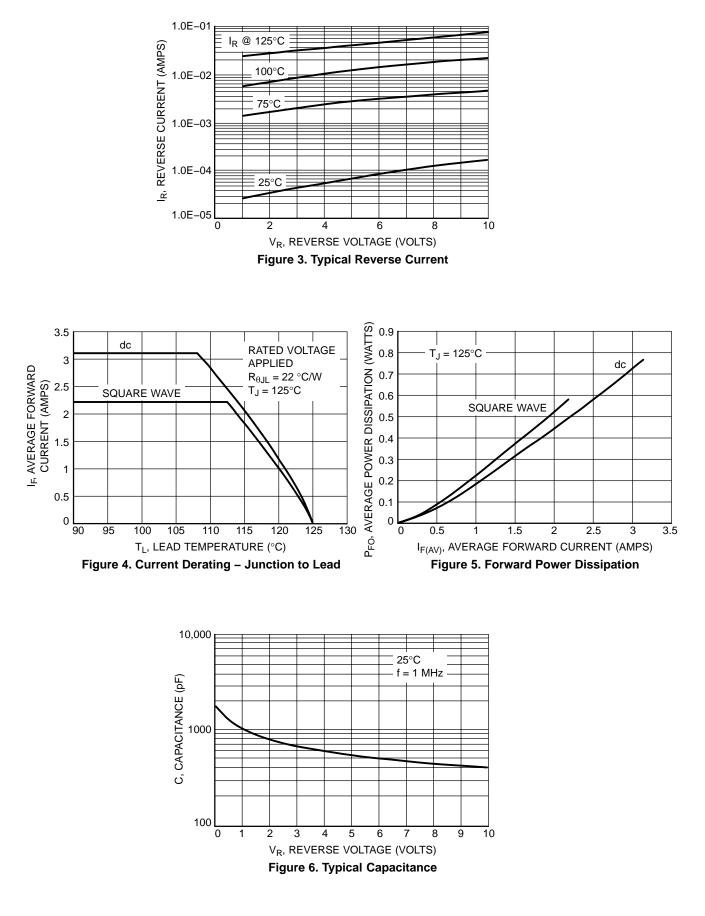
THERMAL CHARACTERISTICS

Characteristic	Symbol	Min Pad	1 Inch Pad	Unit
Thermal Resistance, Junction-to-Lead Thermal Resistance, Junction-to-Ambient	R _{θJL} R _{θJA}	22 150	15 81	°C/W
ELECTRICAL CHARACTERISTICS	·			
Maximum Instantaneous Forward Voltage (Note 1)	V _F	T _J = 25°C	T _J = 100°C	V
$(I_{F} = 0.1 \text{ A})$		0.260	0.15	
$(I_{\rm F} = 1.0 {\rm A})$		0.325	0.23	
$(I_{F} = 2.0 \text{ A})$		0.350	0.26	
Maximum Instantaneous Reverse Current	I _R	T _J = 25°C	T _J = 100°C	mA
$(V_{R} = 5.0 \text{ V})$		0.25	40	
$(V_{R} = 10 V)$		0.70	60	

1. Pulse Test: Pulse Width \leq 250 µs, Duty Cycle \leq 2%.



MBRA210LT3



MBRA210LT3

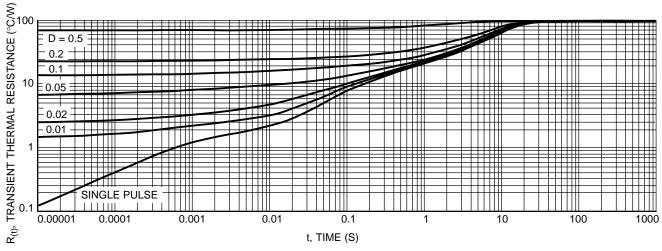


Figure 7. Thermal Response, Junction to Ambient (min pad)

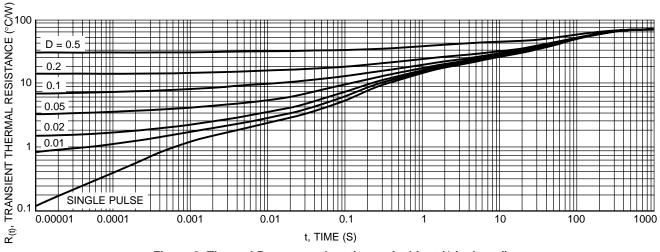
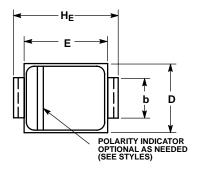


Figure 8. Thermal Response, Junction to Ambient (1 inch pad)

PACKAGE DIMENSIONS

SMA CASE 403D-02 ISSUE C

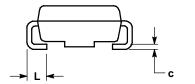


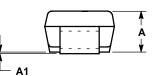
NOTES: 1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.

CONTROLLING DIMENSION: INCH. 403D-01 OBSOLETE, NEW STANDARD IS 403D-02. 3.

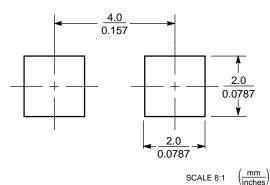
	MILLIMETERS			INCHES		
DIM	MIN	NOM	MAX	MIN	NOM	MAX
Α	1.91	2.16	2.41	0.075	0.085	0.095
A1	0.05	0.10	0.15	0.002	0.004	0.006
b	1.27	1.45	1.63	0.050	0.057	0.064
С	0.15	0.28	0.41	0.006	0.011	0.016
D	2.29	2.60	2.92	0.090	0.103	0.115
E	4.06	4.32	4.57	0.160	0.170	0.180
HE	4.83	5.21	5.59	0.190	0.205	0.220
L	0.76	1.14	1.52	0.030	0.045	0.060







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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