MBRS1100T3, MBRS190T3

THERMAL CHARACTERISTICS

(Rated dc Voltage, $TJ = 25^{\circ}C$)

(Rated dc Voltage, $T_J = 100^{\circ}C$)

Rating	Symbol	Value	Unit °C/W
Thermal Resistance – Junction–to–Lead (T _L = 25°C)	$R_{ heta JL}$	22	
ELECTRICAL CHARACTERISTICS			
Maximum Instantaneous Forward Voltage (Note 1) (i _F = 1.0 A, T _J = 25°C)	V _F	0.75	V
Maximum Instantaneous Reverse Current (Note 1)	l _D		mΑ

0.5

5.0

ORDERING INFORMATION

Device	Marking	Package	Shipping [†]	
MBRS1100T3	B1C	SMB	2500 Tape & Reel	
MBRS1100T3G	B1C	SMB (Pb-Free)	2500 Tape & Reel	
MBRS190T3	B19 SMB		2500 Tape & Reel	
MBRS190T3G	B19	SMB (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.

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

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TYPICAL ELECTRICAL CHARACTERISTICS

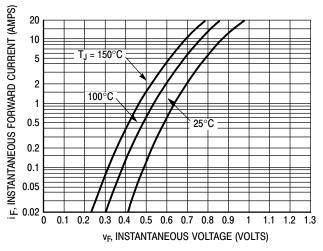


Figure 1. Typical Forward Voltage

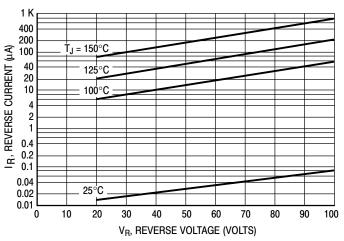


Figure 2. Typical Reverse Current*

*The curves shown are typical for the highest voltage device in the voltage grouping. Typical reverse current for lower voltage selections can be estimated from these curves if V_R is sufficient below rated V_R .

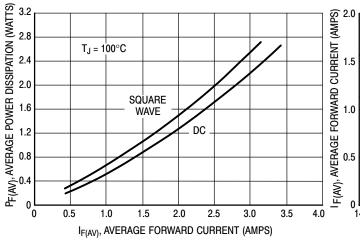


Figure 3. Power Dissipation

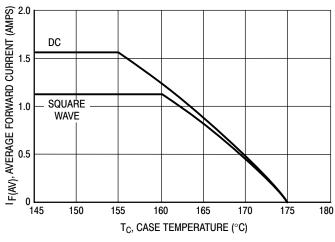


Figure 4. Current Derating, Case, Per Leg

TYPICAL ELECTRICAL CHARACTERISTICS

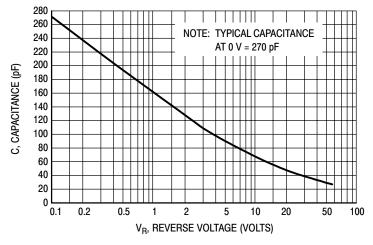
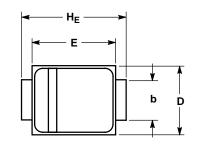


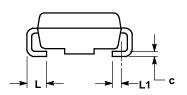
Figure 5. Typical Capacitance

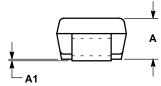
MBRS1100T3, MBRS190T3

PACKAGE DIMENSIONS

SMB PLASTIC PACKAGE CASE 403A-03 ISSUE F



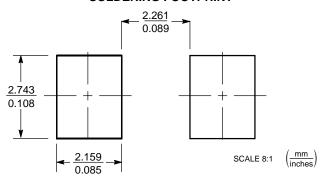




- DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
- CONTROLLING DIMENSION: INCH.
 D DIMENSION SHALL BE MEASURED WITHIN DIMENSION P.

	MILLIMETERS			INCHES		
DIM	MIN	NOM	MAX	MIN	MOM	MAX
Α	1.90	2.13	2.45	0.075	0.084	0.096
A1	0.05	0.10	0.20	0.002	0.004	0.008
b	1.96	2.03	2.20	0.077	0.080	0.087
С	0.15	0.23	0.31	0.006	0.009	0.012
D	3.30	3.56	3.95	0.130	0.140	0.156
E	4.06	4.32	4.60	0.160	0.170	0.181
HE	5.21	5.44	5.60	0.205	0.214	0.220
L	0.76	1.02	1.60	0.030	0.040	0.063
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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