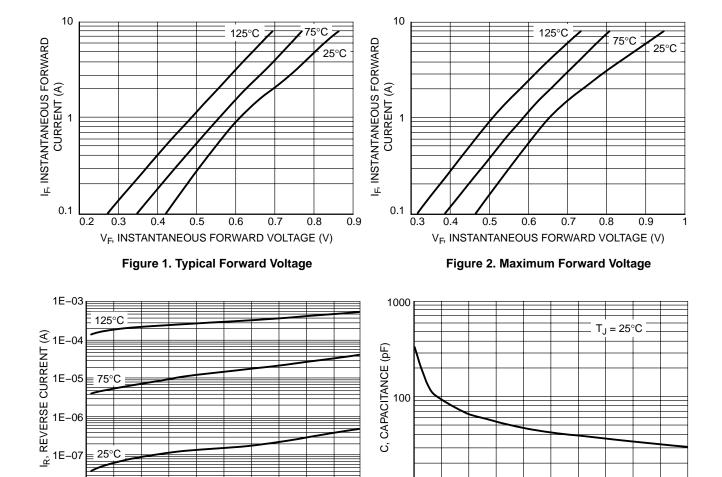
# **MBRS3100T3**

## **ELECTRICAL CHARACTERISTICS**

Rating	Symbol	Value	Unit
	V <sub>F</sub>	0.79 0.90 0.62 0.70	V
Maximum Instantaneous Reverse Current (Note 2) (Rated dc Voltage, $T_J = 25^{\circ}C$ ) (Rated dc Voltage, $T_J = 125^{\circ}C$ )	İR	0.05 5.0	mA

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



10

0

20

40

V<sub>R</sub>, REVERSE VOLTAGE (V)

Figure 4. Typical Capacitance

60

80

100

100

= 25°C

20

40

V<sub>R</sub>, REVERSE VOLTAGE (V)

Figure 3. Typical Reverse Current

60

80

1E-08

0

# **MBRS3100T3**

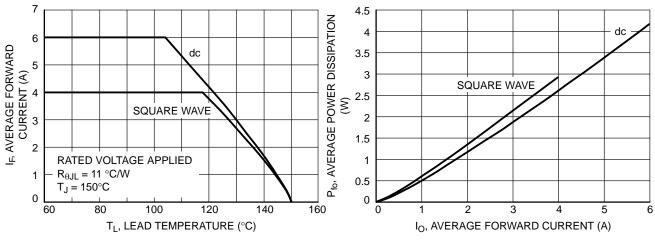


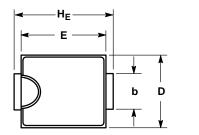
Figure 5. Current Derating – Lead

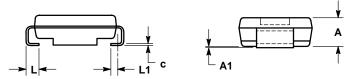
Figure 6. Forward Power Dissipation

## MBRS3100T3

## PACKAGE DIMENSIONS

SMC PLASTIC PACKAGE CASE 403-03 ISSUE E





NOTES

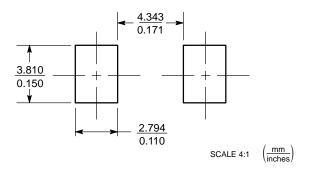
1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M. 1982. 2

CONTROLLING DIMENSION: INCH. D DIMENSION SHALL BE MEASURED WITHIN DIMENSION P. 3.

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
Е	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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