MBRS3200 TEB B

200V, 3A Schottky Fast Soft-Recovery Power Rectifier

SMC Power Surface Mount Package

Features

- Lower Forward Voltage than any Ultrafast Rectifier: $V_F < 0.59 \ V$ at $150^{\circ}C$
- Fast Switching Speed: Reverse Recovery Time $(t_{RR}) < 35$ ns
- Soft Recovery Characteristics: Softness Factor $(t_b/t_a) \ge 1$
- Highly Stable Over Temperature

Benefits

- Significantly Reduced EMI
- Eliminates the Need of Snubber Circuits
- Low Switching and Heat Losses
- Improved Thermal Management

Applications

- Engine and Convenience Control Systems
- Motor Controls
- Battery Chargers and Switching Power Supplies

Mechanical Characteristics

- Small Compact Surface Mount Package with J-Bend Leads
- Rectangular Package for Automated Handling
- Weight: 217 mg (Approximately)
- Finish: All External Surfaces Corrosion Resistant and Terminal Leads are Readily Solderable
- Lead and Mounting Surface Temperature for Soldering Purposes: 260°C Maximum for 10 Seconds
- Polarity: Notch in Plastic Body Indicates Cathode Lead

MAXIMUM RATINGS

Characteristic	Symbol	Value	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	200	V
Average Rectified Forward Current (Rated V_R , T_C = TBD)	I _{F(AV)}	3	A
Nonrepetitive Peak Surge Current	I _{FSM}	100	А
Operating Junction Temperature	TJ	-55 to +150	°C

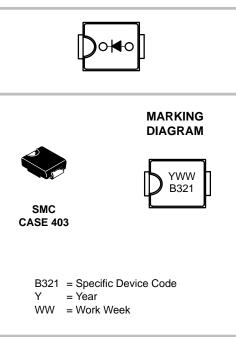
Maximum ratings are those values beyond which device damage can occur. Maximum ratings applied to the device are individual stress limit values (not normal operating conditions) and are not valid simultaneously. If these limits are exceeded, device functional operation is not implied, damage may occur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



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SCHOTTKY RECTIFIER 3 AMPS, 200 VOLTS



ORDERING INFORMATION

Device	Package	Shipping
MBRS3201T3	SMC	2500 / Tape & Reel

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

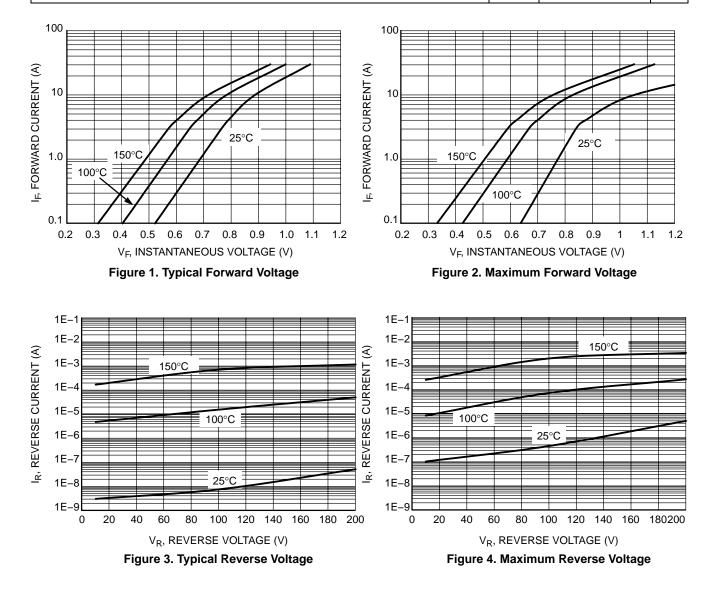
MBRS3201T3

查惯RMBRSHABAF3ER供应答

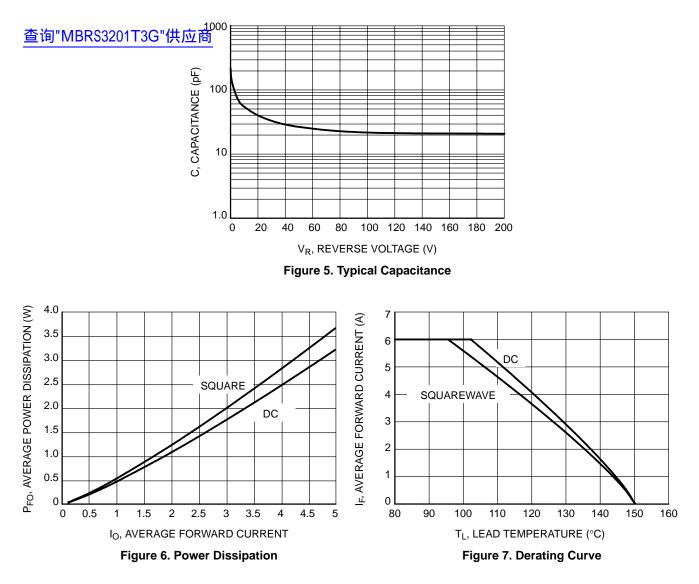
Characteristic	Symbol	Value	Unit
Thermal Resistance – Junction-to-Lead	$R_{\theta JL}$	12	°C/W
Thermal Resistance – Junction-to-Ambient		60	°C/W

ELECTRICAL CHARACTERISTICS

Characteristic		Value	Unit
Maximum Instantaneous Forward Voltage $(I_F=3~A,~T_J=25^\circ C) \\ (I_F=3~A,~T_J=150^\circ C) \label{eq:IF}$	V _F	0.84 0.59	V
Maximum Instantaneous Reverse Current (Rated V_R) (Rated DC Voltage, $T_J = 25^{\circ}C$) (Rated DC Voltage, $T_J = 150^{\circ}C$)		5 5	μA mA
Maximum Reverse Recovery Time (I _F = 1 A, di/dt = 100 A/us, V _R = 30 V)	t _{rr}	35	ns



MBRS3201T3

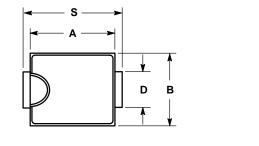


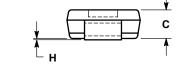
MBRS3201T3

查询"MBRS3201T3G"供应商

PACKAGE DIMENSIONS

SMC CASE 403-03 ISSUE D





NOTES:

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

CONTROLLING DIMENSION: INCH.

3.

D DIMENSION SHALL BE MEASURED WITHIN DIMENSION P.

403-01 THRU -02 OBSOLETE, NEW STANDARD 403-03.

	INCHES		MILLIMETERS		
DIM	MIN	MAX	MIN	MAX	
Α	0.260	0.280	6.60	7.11	
В	0.220	0.240	5.59	6.10	
С	0.075	0.095	1.90	2.41	
D	0.115	0.121	2.92	3.07	
Н	0.0020	0.0060	0.051	0.152	
J	0.006	0.012	0.15	0.30	
Κ	0.030	0.050	0.76	1.27	
Ρ	0.020 REF		0.51 REF		
S	0.305	0.320	7.75	8.13	

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