MOT@ @ @ RSA OLT3/D供应商 SEMICONDUCTOR TECHNICAL DATA

Schottky Power Rectifier Surface Mount Power Package

... Employs the Schottky Barrier principle in a large area metal-to-silicon power diode. State-of-the-art geometry features epitaxial construction with oxide passivation and metal overlay contact. Ideally suited for low voltage, high frequency rectification, or as free wheeling and polarity protection diodes, in surface mount applications where compact size and weight are critical to the system.

- Very Low Forward Voltage Drop (0.395 Volts Max @ 1.0 A, T_J = 25°C)
- Small Compact Surface Mountable Package with J-Bend Leads •
- Highly Stable Oxide Passivated Junction •
- Guardring for Stress Protection •

Mechanical Characteristics

- Case: Epoxy, Molded
- Weight: 95 mg (approximately)
- Finish: All External Surfaces Corrosion Resistant and Terminal Leads are **Readily Solderable**
- Lead and Mounting Surface Temperature for Soldering Purposes: 260°C . Max. for 10 Seconds
- Shipped in 12 mm Tape and Reel, 2500 units per reel WWW.DZSC.COM
- Cathode Polarity Band
- Marking: 1BL3

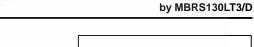
MAXIMUM RATINGS

Rating		Symbol	Value	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	-	VRRM VRWM VR	30	Volts
Average Rectified Forward Current	T _L = 120°C T _L = 110°C	I _{F(AV)}	1.0 2.0	Amps
Nonrepetitive Peak Surge Current (Surge applied at rated load conditions halfwave, single phase, 60 Hz)		IFSM	40	Amps
Operating Junction Temperature		TJ	– 65 to +125	°C
THERMAL CHARACTERISTICS				3
Thermal Resistance — Junction to Lead (T _L = 25°C)		R _{θJL}	12	°C/W
ELECTRICAL CHARACTERISTICS		Care P	BZSC.	
Maximum Instantaneous Forward Voltage (1) ($i_F = 1.0 \text{ A}, T_J = 25^{\circ}\text{C}$) ($i_F = 2.0 \text{ A}, T_J = 25^{\circ}\text{C}$)	602	VF	0.395 0.445	Volts
Maximum Instantaneous Reverse Current (1) (Rated dc Voltage, $T_J = 25^{\circ}C$) (Rated dc Voltage, $T_J = 100^{\circ}C$)		IR	1.0 10	mA

(1) Pulse Test: Pulse Width = 300 μ s, Duty Cycle \leq 2%.

Preferred devices are Motorola recommended choices for future use and best overall value.





24小时加急

Order this document

MBRS130LT3

Motorola Preferred Device

SCHOTTKY BARRIER

RECTIFIER

1.0 AMPERE

30 VOLTS

捷多邦,专业PCB打样工厂





MBRS130LT3

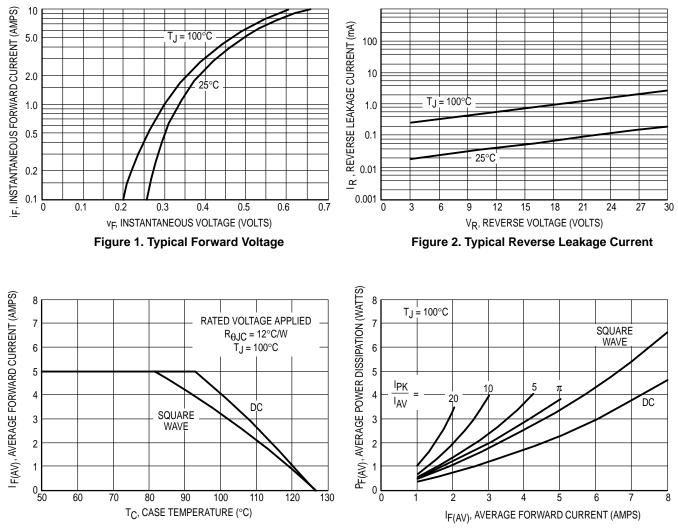


Figure 3. Current Derating (Case)

Figure 4. Typical Power Dissipation

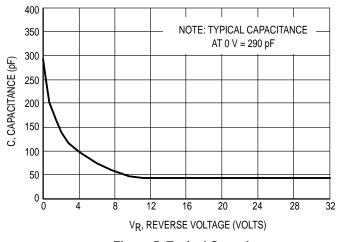
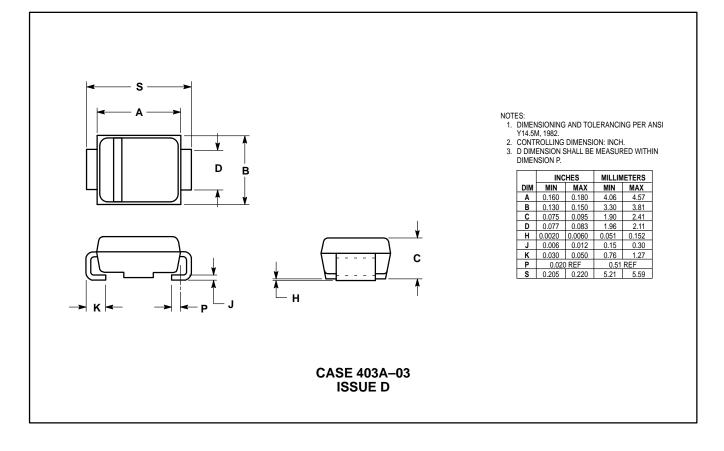


Figure 5. Typical Capacitance

PACKAGE DIMENSIONS



MBRS130LT3

Motorola reserves the right to make changes without further notice to any products herein. Motorola makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does Motorola assume any liability arising out of the application or use of any product or circuit, and specifically disclaims any and all liability, including without limitation consequential or incidental damages. "Typical" parameters which may be provided in Motorola data sheets and/or specifications can and do vary in different applications and actual performance may vary over time. All operating parameters, including "Typicals" must be validated for each customer application by customer's technical experts. Motorola does not convey any license under its patent rights nor the rights of others. Motorola products are not designed, intended, or authorized for use as components in systems intended for surgical implant into the body, or other applications intended to support or sustain life, or for any other application in which the failure of the Motorola product could create a situation where personal injury or death may occur. Should Buyer purchase or use Motorola products for any such unintended or unauthorized application, Buyer shall indemnify and hold Motorola and its officers, employees, subsidiaries, affiliates, and distributors harmless against all claims, costs, damages, and expenses, and reasonable attorney fees arising out of, directly or indirectly, any claim of personal injury or death associated with such unintended or unauthorized use, even if such claim alleges that Motorola was negligent regarding the design or manufacture of the part. Motorola and *w* are registered trademarks of Motorola, Inc. is an Equal Opportunity/Affirmative Action Employer.

How to reach us:

USA/EUROPE/Locations Not Listed: Motorola Literature Distribution; P.O. Box 5405, Denver, Colorado 80217. 1–303–675–2140 or 1–800–441–2447

Customer Focus Center: 1-800-521-6274

Mfax™: RMFAX0@email.sps.mot.com - TOUCHTONE 1-602-244-6609 Motorola Fax Back System - US & Canada ONLY 1-800-774-184 - http://sps.motorola.com/mfax/

HOME PAGE: http://motorola.com/sps/



JAPAN: Motorola Japan Ltd.; SPD, Strategic Planning Office, 141, 4–32–1 Nishi–Gotanda, Shinagawa–ku, Tokyo, Japan. 81–3–5487–8488

Mfax is a trademark of Motorola. Inc.

TOUCHTONE 1–602–244–6609
US & Canada ONLY 1–800–774–1848
http://sps.motorola.com/mfax/
ASIA/PACIFIC: Motorola Semiconductors H.K. Ltd.; Silicon Harbour Centre, 2, Dai King Street, Tai Po Industrial Estate, Tai Po, N.T., Hong Kong.
852–26668334