# 查询"MBR2515L"供应商 Advance Information

# **SWITCHMODE™** Power Rectifier

... employing the Schottky Barrier principle in a large metal-to-silicon power diode. State-of-the-art geometry features epitaxial construction with oxide passivation and metal overlay contact. Ideally suited for use in low voltage, high frequency switching power supplies, low voltage converters, OR'ing diodes, and polarity protection devices.

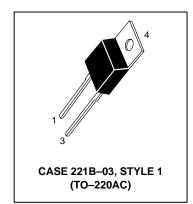
- Very Low Forward Voltage (0.28 V Maximum @ 19 Amps, 70°C)
- · Guardring for Stress Protection
- Highly Stable Oxide Passivated Junction (100°C Operating Junction Temperature)
- Epoxy Meets UL94, VO at 1/8"

### **Mechanical Characteristics**

- · Case: Epoxy, Molded
- Weight: 1.9 grams (approximately)
- Finish: All External Surfaces Corrosion Resistant and Terminal Leads are Readily Solderable
- Lead Temperature for Soldering Purposes: 260°C Max. for 10 Seconds
- Shipped 50 Units Per Plastic Tube
- Marking: B2515L

# **MBR2515L**

SCHOTTKY BARRIER RECTIFIER 25 AMPERES 15 VOLTS



#### 1 0 4 0 3

### **MAXIMUM RATINGS (Per Leg)**

Rating	Symbol	Max	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	15	Volts
Average Rectified Forward Current (Rated $V_R$ ) $T_C = 90$ °C	lF(AV)	25	Amps
Peak Repetitive Forward Current, Per Leg (Rated V <sub>R</sub> , Square Wave, 20 kHz) T <sub>C</sub> = 90°C	I <sub>FRM</sub>	30	Amps
Non Repetitive Peak Surge Current (Surge applied at rated load conditions halfwave, single phase, 60 Hz)	IFSM	150	Amps
Peak Repetitive Reverse Surge Current (2.0 μs, 1.0 kHz)	IRRM	1.0	Amps
Operating Junction Temperature	TJ	-65 to +100	°C
Storage Temperature	T <sub>stg</sub>	-65 to +125	°C

## THERMAL CHARACTERISTICS

Thermal Resistance — Junction to Case	$R_{\theta JC}$	2.0	°C/W

## **ELECTRICAL CHARACTERISTICS**

Maximum Instantaneous Forward Voltage (1) (IF = 25 Amps, $T_J$ = 25°C) (IF = 25 Amps, $T_J$ = 70°C) (IF = 19 Amps, $T_J$ = 70°C)	VF	0.45 0.42 0.28	Volts
Maximum Instantaneous Reverse Current (1) (Rated DC Voltage, T <sub>J</sub> = 25°C) (Rated DC Voltage, T <sub>J</sub> = 70°C)	I <sub>R</sub>	15 200	mA

<sup>(1)</sup> Pulse Test: Pulse Width = 300  $\mu$ s, Duty Cycle  $\leq$  2.0%.

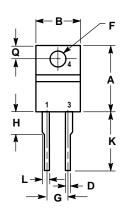
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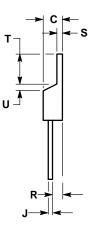
This document contains information on a new product. Specifications and information herein are subject to change without notice.



#### PACKAGE DIMENSIONS

# 宣询"MBR2515L"供应商





#### NOTES:

- DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
- 2. CONTROLLING DIMENSION: INCH.

	INCHES		MILLIMETERS	
DIM	MIN	MAX	MIN	MAX
Α	0.595	0.620	15.11	15.75
В	0.380	0.405	9.65	10.29
С	0.160	0.190	4.06	4.82
D	0.025	0.035	0.64	0.89
F	0.142	0.147	3.61	3.73
G	0.190	0.210	4.83	5.33
Н	0.110	0.130	2.79	3.30
ſ	0.018	0.025	0.46	0.64
K	0.500	0.562	12.70	14.27
L	0.045	0.060	1.14	1.52
Q	0.100	0.120	2.54	3.04
R	0.080	0.110	2.04	2.79
S	0.045	0.055	1.14	1.39
Т	0.235	0.255	5.97	6.48
U	0.000	0.050	0.000	1.27

STYLE 1: PIN 1. CATHODE

2. N/A 3. ANODE

4. CATHODE

CASE 221B-03 (TO-220AC) **ISSUE B** 

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