New Jersey Semi-Conductor Products, Inc.

20 STERN AVE. SPRINGFIELD, NEW JERSEY 07081 U.S.A.

TELEPHONE: (973) 376-2922

(212) 227-6005

FAX: (973) 376-8960

MBR030 MBR040

Advance Information

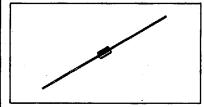
SWITCHMODE RECTIFIERS

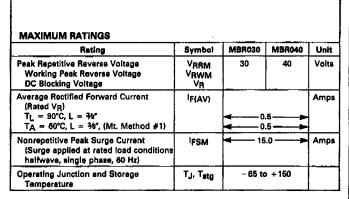
... designed for use in switching power supplies, inverters, and as free wheeling diodes, these devices have the following features:

- Low Forward Voltage
- Low Leakage Current
- DO-204AH (DO-35) Glass Package

SCHOTTKY RECTIFIERS

0.5 AMPERE 30-40 VOLTS





THERMAL CHARACTERISTICS

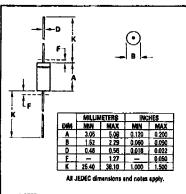
Characteristic	Symbol	Тур	Max	Unit
Thermal Resistance, Junction to Lead = %"	ReJL	180	190	°C/W

FLECTRICAL	CHARACTERISTICS

Characteristic	Symbol	Тур	Mex	Unit
Instantaneous Foward Voltage (1) (IF = 0.1 A, T _J = 25°C) (IF = 0.5 A, T _J = 25°C)	٧F	0.460 0.610	0.500 0.750	Volts
Reverse Current (Rated dc Voltage, T _J = 150°C) (Rated dc Voltage, T _J = 25°C)	İR	0.6 0.003	1.0 0.001	mA

(1) Pulse Test: Pulse Width = 300 µs, Duty Cycle ≤ 2.0%.

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



NOTES

- 1. PACKAGE CONTOUR OPTIONAL WITHIN A AND B. HEAT SLUGS, IF ANY, SHALL BE INCLUDED WITHIN THIS CYLINDER, BUT NOT SUBJECT TO THE MINIMUM LIMIT OF B.
- THE MINIMUM LIMIT OF 8.

 2. LEAD DIAMETER NOT CONTROLLED IN ZONE F TO ALLOW FOR FLASH, LEAD FINISH BUILDUP AND MINOR IRREGULARITIES OTHER THAN HEAT SLUGS.
- 3. POLARITY DENOTED BY CATHODE BAND.
 4. DIMENSIONING AND TOLERANCING PER
 ANSI Y14.5, 1973.

MECHANICAL CHARACTERISTICS

CASE: Glas

FINISH: External leads are plated and are readily solderable

POLARITY: Cathod indicated by polarity band. **WEIGHT:** 0.2 Gram (approximately).

MAXIMUM LEAD TEMPERATURE FOR SOLD-ERING PURPOSES: 230°C, '4" from case for 10

second:

NJ Semi-Conductors reserves the right to change test conditions, parameter limits and package dimensions without notice. Information furnished by NJ Semi-Conductors is believed to be both accurate and reliable at the time of going to press. However, NJ Semi-Conductors assumes no responsibility for any errors or omissions discovered in its use. NJ Semi-Conductors encourages customers to verify that datasheets are current before placing orders.