

## MBRD360-MBRD3200 SCHOTTKY RECTIFIER

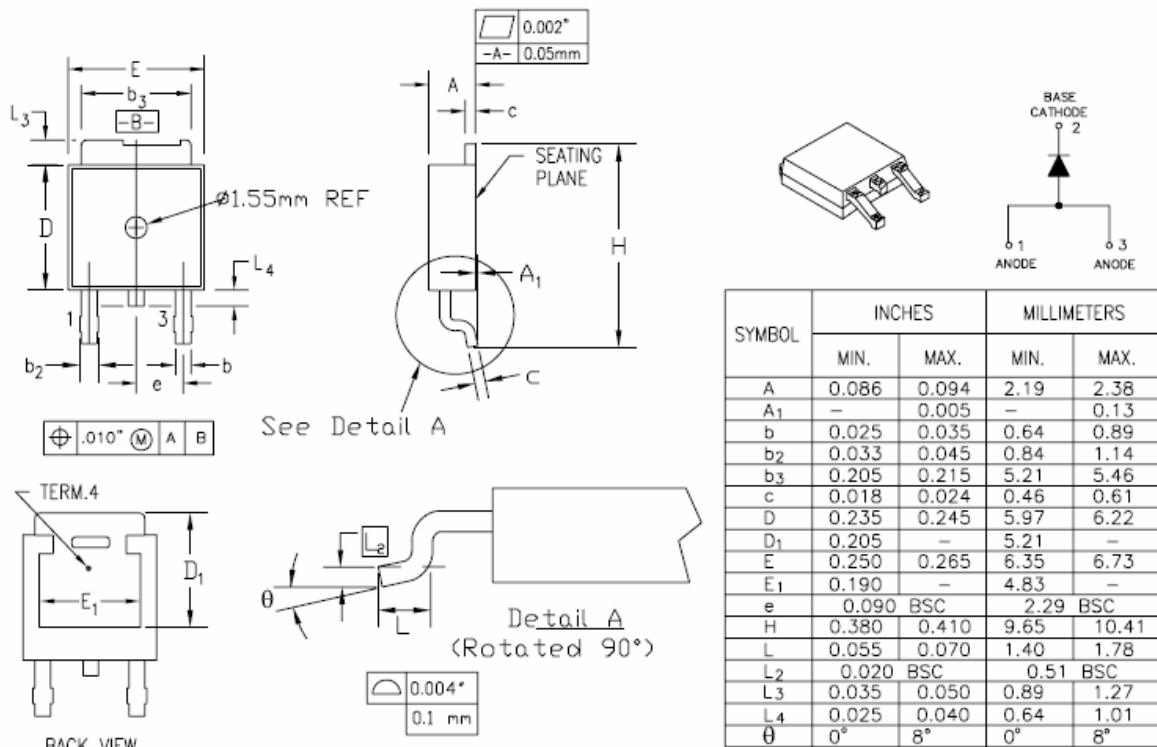
### Applications:

- Switching power supply
- Converters
- Free-Wheeling diodes
- Reverse battery protection

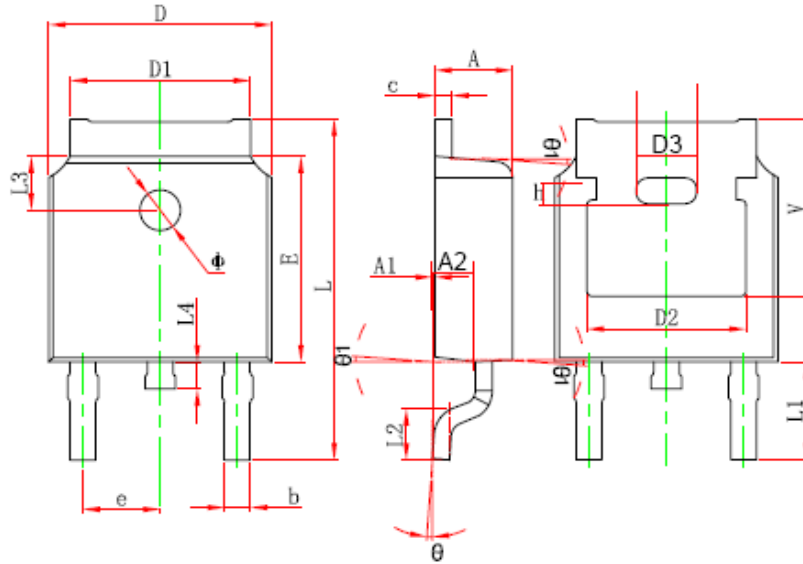
### Features:

- 150 °C T<sub>J</sub> operation
- Center tap configuration
- Low forward voltage drop
- High purity, high temperature epoxy encapsulation for enhanced mechanical strength and moisture resistance
- High frequency operation
- Guard ring for enhanced ruggedness and long term reliability
- This is a Pb – Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

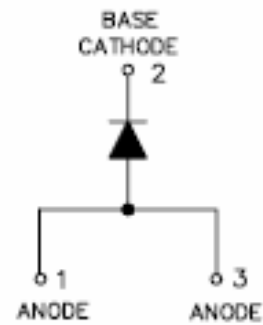
### Mechanical Dimensions: In Inches / mm



### OPTION 1(MX)



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max.	Min.	Max.
A	2.200	2.380	0.087	0.094
A1	0.000	0.100	0.000	0.004
b	0.710	0.810	0.028	0.032
c	0.460	0.560	0.018	0.022
D	6.500	6.700	0.256	0.264
D1	5.130	5.460	0.202	0.215
D2	4.830 REF.		0.190 REF.	
E	6.000	6.200	0.236	0.244
e	2.186	2.386	0.086	0.094
L	9.800	10.400	0.386	0.409
L1	2.900 REF.		0.114 REF.	
L2	1.400	1.700	0.055	0.067
L3	1.600 REF.		0.063 REF.	
L4	0.600	1.000	0.024	0.039
Φ	1.100	1.300	0.043	0.051
θ	0°	8°	0°	8°
A2	0.910	1.110	0.036	0.044
V	5.350 REF.		0.211 REF.	
D3	1.778 REF.		0.070 REF.	
h	0.762 REF.		0.030 REF.	
θ1	7°		7°	



**OPTION 2(CJ)**

**DPAK**

**Marking Diagram:**



Where XXXXX is YYWWL

MBR = Device Type  
 D = Package type  
 3 = Forward Current (3A)  
 60 = Reverse Voltage (60V)  
 SSG = SSG  
 YY = Year  
 WW = Week  
 L = Lot Number

**Cautions:** Molding resin  
 Epoxy resin UL:94V-0

**Ordering Information:**

Device	Package	Shipping
MBRD360	DPAK (Pb-Free)	2500pcs / reel

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

**Maximum Ratings/Electrical Characteristics /Thermal-Mechanical Specifications:**

Characteristics	Symbol	360	380	3100	3150	3200	Units
Peak Inverse Voltage	VRWM	60	80	100	150	200	V
Max. Average Forward	I <sub>F(AV)</sub>	3					A
Max. Peak One Cycle Non-Repetitive Surge Current (8.3ms Single half sine-wave)	I <sub>FSM</sub>	80					A
Max. Forward Voltage Drop @3A, 25°C	V <sub>F</sub>	0.65	0.75	0.85	0.90	0.92	V
Max. Reverse Current @VRWM, 25°C	I <sub>R</sub>	1					mA
Max. Junction Capacitance(Note1)	C <sub>T</sub>	250			100		pF
Max. Junction Temperature	T <sub>J</sub>	-55 to +150					°C
Max. Storage Temperature	T <sub>stg</sub>	-55 to +150					°C
Maximum Thermal Resistance Junction to Case (DC operation)	R <sub>θJC</sub>	6.0					°C/W
Approximate Weight	wt	0.39					g
Case Style		DPAK					

Pulse Width < 300μs, Duty Cycle <2%

Note1: Measured at 1.0 MHz and applied reverse voltage of 5.0V D.C.

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