

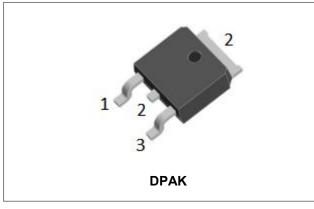
Data Sheet N0798, Rev. A

Technical Data

MBRD360 THRU MBRD3200

RoHS 🗭

MBRD360 THRU MBRD3200 SCHOTTKY RECTIFIER



Features

- 150°C T_J 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
- "-A" is an AEC-Q101 qualified device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

Applications

- Disk drives
- Switching power supply
- Converters
- Free-Wheeling diodes
- Reverse battery protection
- Battery charging

Maximum Ratings and Electrical characteristics @T_A = 25°C unless otherwise specified

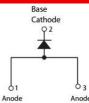
Characteristics	Symbol	MBRD 360	MBRD 380	MBRD 3100	MBRD 3150	MBRD 3200	Units
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} VR	60	80	100	150	200	v
Average Forward Current	I _{F(AV)}	3		Α			
Max. Peak One Cycle Non-Repetitive Surge Current(8.3ms Single half sine-wave)	I _{FSM}	80		А			
Max. Forward Voltage Drop* @3A, 25°C	VF	0.65	0.75	0.85	0.90	0.92	V
Max. Reverse Current* @V _{RWM} , 25°C	I _R			1			mA
Max. Junction Capacitance(Note1)	Ст		250		1(00	pF
Junction Temperature	TJ	-55 to +150		°C			
Storage Temperature	T _{stg}	-55 to +150		°C			
Typical Thermal Resistance Junction to Case (DC operation)	$R_{ ext{ heta}JC}$			6.0			°C/W
Approximate Weight	wt			0.39			g
Case Style		DPAK					

* Pulse width < 300 µs, duty cycle < 2%

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

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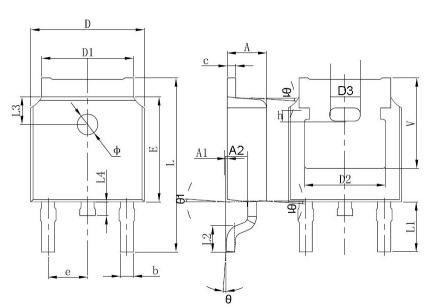
Circuit Diagram





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Mechanical Dimensions DPAK



	Millim	neters	Inches		
SYMBOL	Min.	Max.	Min.	Max.	
A	2.20	2.40	0.087	0.094	
A1	0.00	0.127	0.000	0.005	
b	0.66	0.86	0.026	0.034	
С	0.46	0.60	0.018	0.024	
D	6.50	6.70	0.256	0.264	
D1	5.13	5.46	0.202	0.215	
D2	4.83 REF.		0.190 REF.		
E	6.00	6.20	0.236	0.244	
е	2.186	2.386	0.086	0.094	
L	9.70	10.40	0.381	0.409	
L1	2.90 REF.		0.144 REF.		
L2	1.40	1.70	0.055	0.067	
L3	1.60 REF.		0.063 REF.		
L4	0.60	1.00	0.024	0.039	
Φ	1.10	1.30	0.043	0.051	
Θ	0°	8°	0°	8°	
h	0.00	0.30	0.000	0.012	
V	5.35 REF.		0.211 REF.		

First row: Part Number (MBRD360, MBRD380, MBRD3100, MBRD3150,

YY is the manufacture year, WW is the manufacture week code,

Second row: SSG YYWWL

L is the wafer's Lot Number

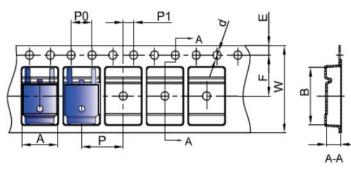
MBRD3200)

Ordering Information

Device	Package	Shipping
MBRD360 THRU MBRD3200	DPAK (Pb-Free)	2500pcs / reel
MBRD360TR THRU MBRD3200TR	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.

Carrier Tape Specification DPAK



SYMBOL	Millimeters			
	Min.	Max.		
А	6.80	7.00		
В	10.40	10.60		
С	2.60	2.80		
d	Φ1.45	Φ1.65		
E	1.65	1.85		
F	7.40	7.60		
P0	3.90	4.10		
P	7.90	8.10		
P1	1.90	2.10		
W	15.90	16.30		

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W

Marking Diagram

Part Number

SSG YYWWL

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