

Schottky Barrier Rectifier

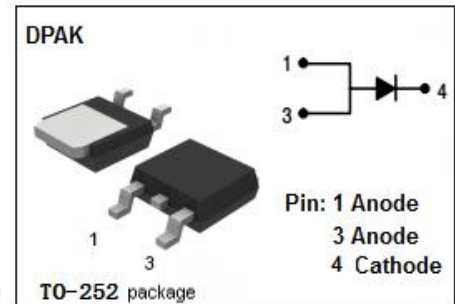
MBRD835

FEATURES

- Schottky barrier chip
- Low Power Loss, High Efficiency
- Guard ring for transient protection
- High Operating Junction Temperature
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

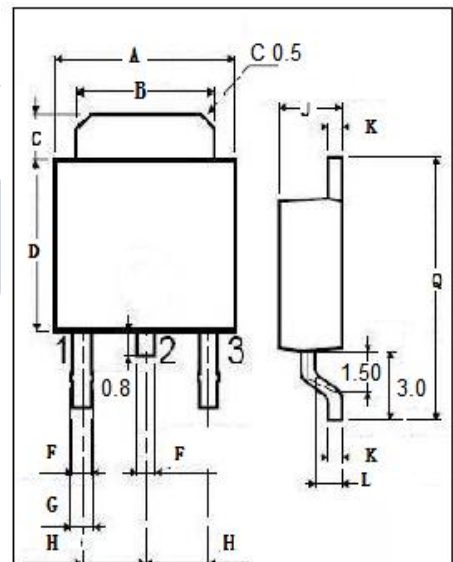
APPLICATIONS

- For use in high frequency rectifier of switching mode power supplies, freewheeling diodes, DC-to-DC converters or polarity protection application.



ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{RRM} V _{RMS} V _R	Peak Repetitive Reverse Voltage RMS Voltage DC Blocking Voltage	35	V
I _{F(AV)}	Average Rectified Forward Current	8	A
I _{FSM}	Non-repetitive Peak Surge Current 8.3ms single half sine-wave superimposed on rated load conditions	175	A
T _J	Junction Temperature	-65~125	°C
T _{stg}	Storage Temperature Range	-65~150	°C



DIM	mm	
	MIN	MAX
A	6.40	6.60
B	5.20	5.40
C	1.15	1.35
D	5.70	6.10
F	0.65	
G	0.75	
H	2.10	2.50
J	2.10	2.40
K	0.40	0.60
L	0.90	1.10
Q	9.90	10.1

Schottky Barrier Rectifier**MBRD835****THERMAL CHARACTERISTICS**

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j-c}$	Thermal Resistance, Junction to Case	2.8	°C/W

ELECTRICAL CHARACTERISTICS

SYMBOL	PARAMETER	CONDITIONS	TYP	MAX	UNIT
V_F	Maximum Instantaneous Forward Voltage	$I_F = 8A ; T_j = 25^\circ C$		0.51	V
		$I_F = 8A ; T_j = 125^\circ C$		0.41	
I_R	Maximum Instantaneous Reverse Current	$V_R = V_{RRM} ; T_j = 25^\circ C$		1.4	mA
		$V_R = V_{RRM} ; T_j = 100^\circ C$		35	

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