

Schottky Barrier Rectifier

MBRF1635

FEATURES

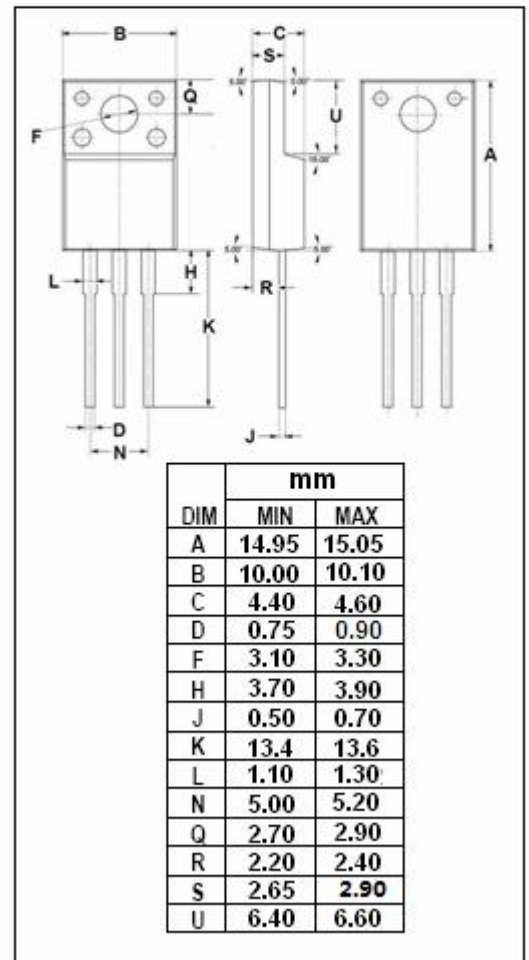
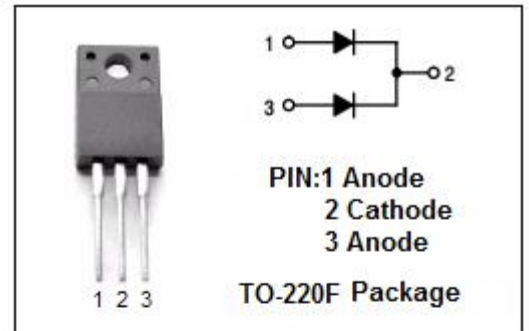
- High current capability
- Avalanche rated
- Low Power Loss,high Efficiency
- High frequency operation
- High Surge Capability,High Current Capability
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- For use in low voltage,high frequency inverters,free wheeling and polarity protection applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{RRM}	Peak Repetitive Reverse Voltage	35	V
V _{RWM}	Working Peak Reverse Voltage	24	
V _R	DC Blocking Voltage	35	
I _{F(AV)}	Average Rectified Forward Current T _c =125°C	16	A
I _{F(RSM)}	Forward Current rms;T _c =125°C (Square wave,20KHz)	32	A
I _{FSM}	Nonrepetitive Peak Surge Current 8.3ms single half sine-wave superimposed on rated load conditions	150	A
T _J	Junction Temperature	-55~150	°C
T _{stg}	Storage Temperature Range	-55~175	°C



Schottky Barrier Rectifier
MBRF1635
THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j-c}$	Thermal Resistance, Junction to Case	3.0	$^{\circ}C/W$

ELECTRICAL CHARACTERISTICS (Pulse Test: Pulse Width=300 μ s, Duty Cycle \leq 1%)

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
V_F	Maximum Instantaneous Forward Voltage	$I_F= 16A ; T_c= 25^{\circ}C$	0.63	V
		$I_F= 16A ; T_c=125^{\circ}C$	0.57	
I_R	Maximum Instantaneous Reverse Current	$V_R= 35V; T_c= 25^{\circ}C$	0.5	mA
		$V_R= 35V; T_c= 125^{\circ}C$	15	

NOTICE:

ISC reserves the rights to make changes of the content herein the datasheet at any time without notification. The information contained herein is presented only as a guide for the applications of our products.

ISC products are intended for usage in general electronic equipment. The products are not designed for use in equipment which require specialized quality and/or reliability, or in equipment which could have applications in hazardous environments, aerospace industry, or medical field. Please contact us if you intend our products to be used in these special applications.

ISC makes no warranty or guarantee regarding the suitability of its products for any particular purpose, nor does ISC assume any liability arising from the application or use of any products, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages.