

Schottky Barrier Rectifier

RBQ30TB45BNZ

FEATURES

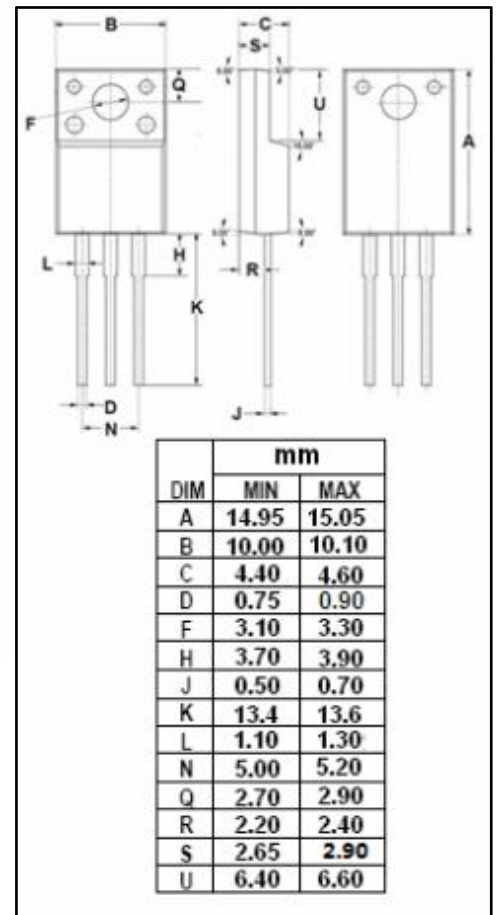
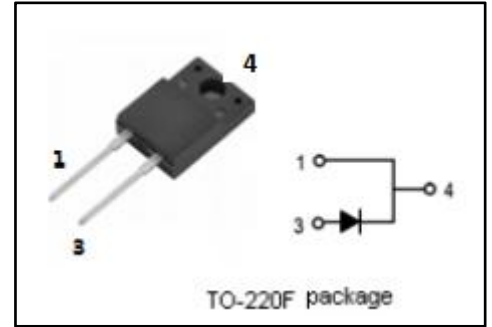
- Low Forward Voltage
- Power Mold Type
- High reliability
- Low Stored Charge Majority Carrier Conduction
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

MECHANICAL CHARACTERISTICS

- Switching power supply
- Finish: All External Surfaces Corrosion Resistant and Terminal Leads are Readily Solderable

ABSOLUTE MAXIMUM RATINGS(T_a=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{RRM} V _{RMS} V _R	Peak Repetitive Reverse Voltage RMS Voltage DC Blocking Voltage	45	V
I _{F(AV)}	Average Rectified Forward Current (Rated V _R) T _C = 100°C	30	A
I _{FSM}	Nonrepetitive Peak Surge Current 60Hz half sin Wave 1cycle	100	A
T _J	Junction Temperature	150	°C
T _{stg}	Storage Temperature Range	-55~175	°C



Schottky Barrier Rectifier**RBQ30TB45BNZ****THERMAL CHARACTERISTICS**

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	2	°C/W

ELECTRICAL CHARACTERISTICS (Pulse Test: Pulse Width=300 μs, Duty Cycle ≤ 1%)

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
V _F	Maximum Instantaneous Forward Voltage	I _F = 30A ; T _c = 25°C	0.59	V
I _R	Maximum Instantaneous Reverse Current (Measured at 1MHz and Applied Reverse Voltage of 4.0V D.C)	V _R =V _{RRM} T _c = 25°C	350	mA

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