

Schottky Barrier Rectifier

D4020L

FEATURES

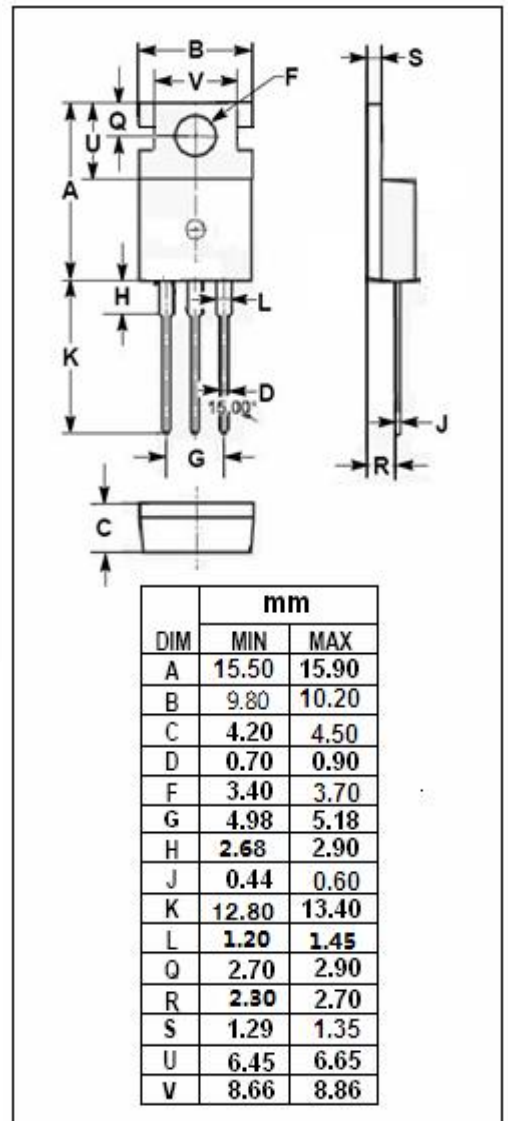
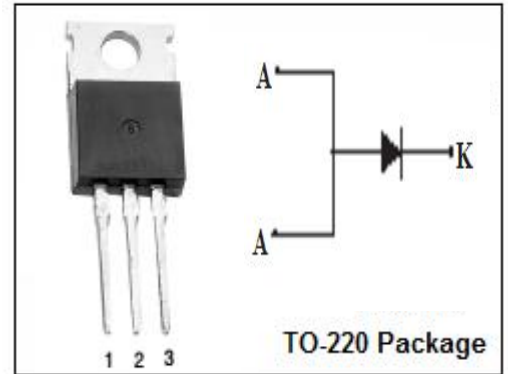
- With TO-220 packaging
- Electrically-isolated packages
- High frequency operation
- High current capability
- Low stored charge majority carrier conduction
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Switching power supply
- High frequency inverters
- Freewheeling diodes
- Reverse battery protection
- Polarity protection applications

ABSOLUTE MAXIMUM RATINGS(T_a=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{RRM} V _{RWM} V _R	Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	400	V
I _{F(AV)}	Average Rectified Forward Current @T _c =125°C	9.5	A
I _{F(RMS)}	RMS Forward Current	15	A
I _{FSM}	Nonrepetitive Peak Surge Current (Surge applied at rated load conditions half-wave, single phase)	50HZ 188 60HZ 225	A
T _J	Junction Temperature	-40~125	°C
T _{stg}	Storage Temperature Range	-40~125	°C



Schottky Barrier Rectifier**D4020L****THERMAL CHARACTERISTICS**

SYMBOL	PARAMETER	MAX	UNIT
R_{thj-c}	Thermal Resistance, Junction to Case	2.85	$^{\circ}\text{C}/\text{W}$

ELECTRICAL CHARACTERISTICS ($T_a=25^{\circ}\text{C}$) (Pulse Test: Pulse Width=300 μs , Duty Cycle $\leq 2\%$)

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
V_{F^*}	Maximum Instantaneous Forward Voltage	$I_F=20\text{A}$	1.6	V
I_{R^*}	Maximum Instantaneous Reverse Current	$V_R=V_{RWM};$ $V_R=V_{RWM}; T_j=25^{\circ}\text{C}$	0.1 1.0	mA