

Schottky Barrier Rectifier

30CTQ060

FEATURES

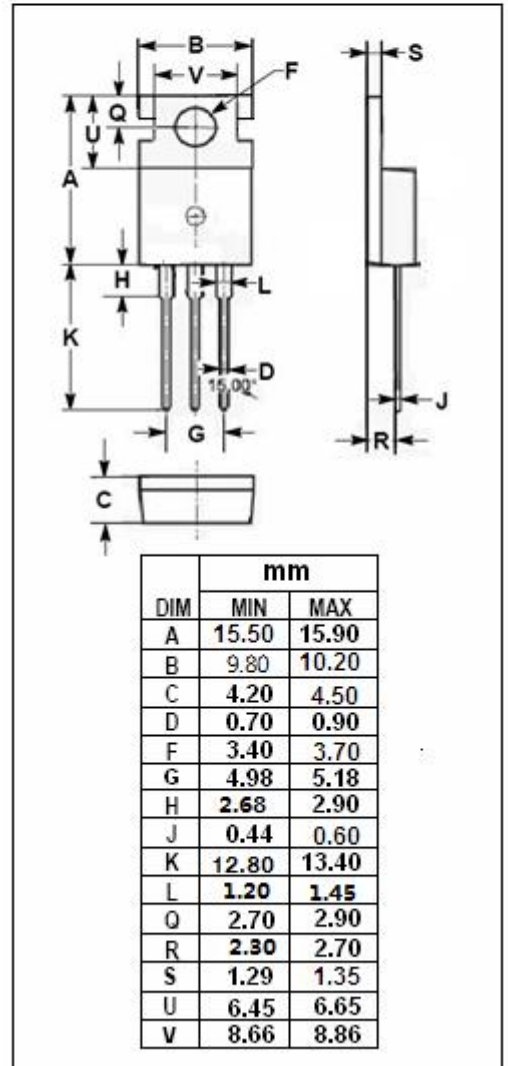
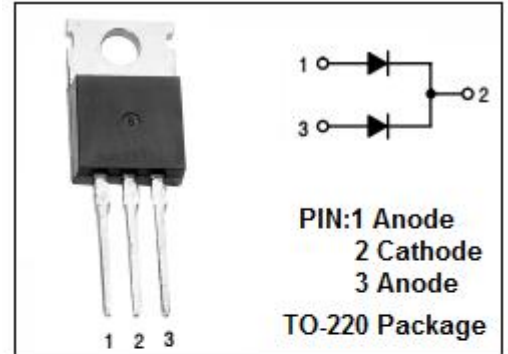
- Low forward voltage drop
- Low Power Loss,high Efficiency
- Guard ring for overvoltage protection
- High Surge Capability,High Current Capability
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- For use inswitching power supplies, converters, free-wheeling diodes, and reverse battery protection.

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{RRM} V _{RWM} V _R	Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	60	V
I _{F(AV)}	Average Rectified Forward Current	15	A
I _{FSM}	Nonrepetitive Peak Surge Current	260	A
T _J	Junction Temperature	-55~150	°C
T _{stg}	Storage Temperature Range	-55~150	°C
dv/dt	Voltage Rate of Change (Rated V _R)	10000	V/μs



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THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	1.63	°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 = 15A ; T _c = 25°C	0.62	V
		I _F = 15A ; T _c = 125°C	0.56	
I _R	Maximum Instantaneous Reverse Current	V _R = V _{RRM} ; T _c = 25°C	0.82	mA
		V _R = V _{RRM} ; T _c = 125°C	0.71	

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