

Schottky Rectifier

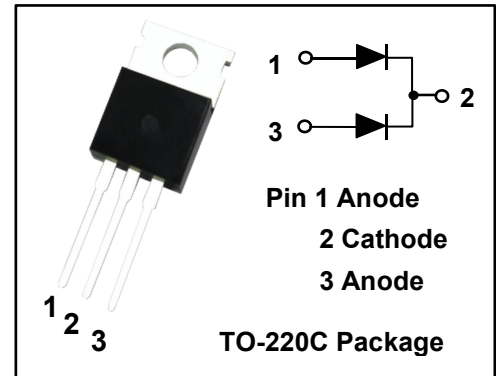
30CTQ060

FEATURES

- High frequency operation
- Low forward voltage drop

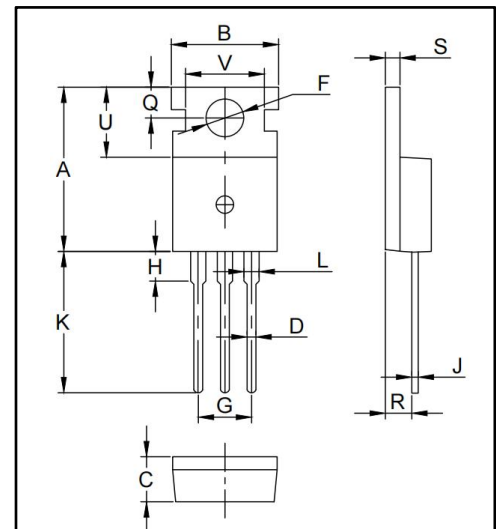
APPLICATIONS

- Converters
- Switching power
- Freewheeling diodes, and reverse battery protection



ABSOLUTE MAXIMUM RATINGS(T_a=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{RRM}	Peak Repetitive Reverse Voltage	60	V
I _{F(AV)}	Average Rectified Forward Current 50 % duty cycle at T _C = 105 °C	2*15	A
I _{FSM}	Non-repetitive Peak Surge Current tp = 5 μs sine	1000	A
T _J	Junction Temperature	-55~150	°C
T _{stg}	Storage Temperature Range	-55~150	°C



DIM	mm		
	MIN	TYP.	MAX
A	15.50	15.70	15.90
B	9.80	10.00	10.20
C	4.20	4.35	4.50
D	0.70	0.80	0.90
F	3.40	3.55	3.70
G	4.98	5.08	5.18
H	2.68	2.79	2.90
J	0.44	0.52	0.60
K	12.80	13.10	13.40
L	1.20	1.32	1.45
Q	2.70	2.80	2.90
R	2.30	2.50	2.70
S	1.29	1.32	1.35
U	6.45	6.55	6.65
V	8.66	8.76	8.86

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case per diode	1.63	°C/W

ELECTRICAL CHARACTERISTICS(T_J = 25 ° C unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
V _F	Maximum Instantaneous Forward Voltage	I _F = 15A, T _J = 25°C	0.62	V
		I _F = 30A, T _J = 25°C	0.76	
		I _F = 15A, T _J = 125°C	0.56	
		I _F = 30A, T _J = 125°C	0.71	
I _R	Maximum Instantaneous Reverse Current	V _R = V _{RWM}	0.8	mA
		V _R = V _{RWM} , T _J = 125°C	45	

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