

Schottky Rectifier

47CTQ020

FEATURES

- · High frequency operation
- · Low forward voltage drop

APPLICATIONS

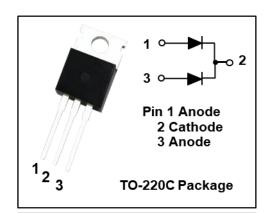
- Converters
- · Switching power
- · Freewheeling diodes, and reverse battery protection

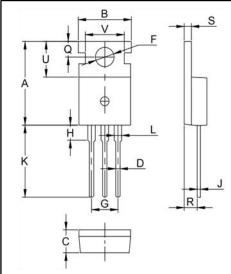
ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V_{RRM}	Peak Repetitive Reverse Voltage	20	V
I _{F(AV)}	Average Rectified Forward Current 50 % duty cycle at T _C = 135 ℃		
I _{FSM}	Non-repetitive Peak Surge Current tp = 5 µs sine		
Тл	Junction Temperature	-55~150	
T _{stg}	Storage Temperature Range	-55~150	°C

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance,Junction to Case	0.75	°C/W





DIM	mm		
DIM	MIN	TYP.	MAX
Α	15.50	15.70	15.90
В	9.80	10.00	10.20
С	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
Н	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
٧	8.66	8.76	8.86



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

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
V _F	Maximum Instantaneous Forward Voltage	I _F = 20A, T _J = 25 °C	0.45	V
		I _F = 40A, T _J = 25 °C	0.51	
		I _F = 20A, T _J = 125 °C	0.34	
		I _F = 40A, T _J = 125 °C	0.44	
I _R	Maximum Instantaneous Reverse Current	$V_R = V_{RWM}$	3	- mA
		V _R = V _{RWM} , T _J = 125°C	310	

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