



Schottky Rectifier

30CTQ045

FEATURES

- · High frequency operation
- · Low forward voltage drop

APPLICATIONS

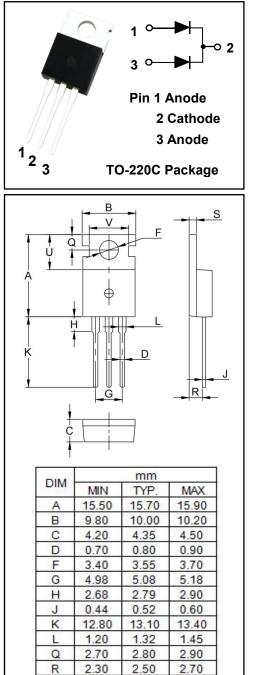
- Converters
- · Switching power
- · Freewheeling diodes, and reverse battery protection



SYMBOL	PARAMETER	VALUE	UNIT
VRRM	Peak Repetitive Reverse Voltage	45	V
I _{F(AV)}	Average Rectified Forward Current	2*15	А
IFSM	Non-repetitive Peak Surge Current tp = 5 µs sine	1060	А
TJ	Junction Temperature -55~17		°C
T _{stg}	Storage Temperature Range -55~175		°C

THERMAL CHARACTERISTICS

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



S

U

V

1.29

6.45

8.66

1.32

6.55

8.76

1.35

6.65

8.86



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

SYMBOL	PARAMETER	CONDITIONS	МАХ	UNIT
VF	Maximum Instantaneous Forward Voltage	I _F = 15A, TJ= 25℃	0.62	- V
		I _F = 30A, T _J = 25℃	0.76	
		I _F = 15A, T _J = 125℃	0.56	
		I⊧= 30A, TJ= 125℃	0.70	
I _R	Maximum Instantaneous Reverse Current	V _R = V _{RWM}	2	mA
		V _R = V _{RWM} , Тј= 125℃	15	

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