

Ultra fast Rectifier

SF10LC20U

FEATURES

- Ultrafast with soft recovery
- 150°C operating temperature
- Popular TO-220F package
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

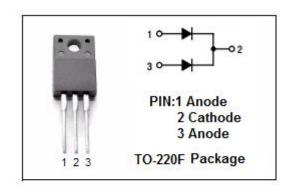


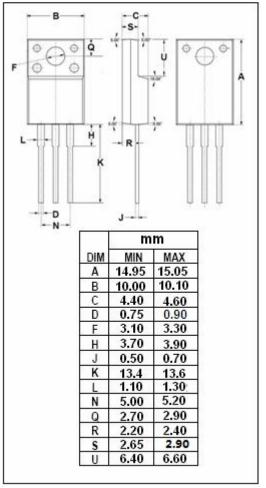
APPLICATIONS

- · Switching power supply
- · General purpose



SYMBOL	PARAMETER	VALUE	UNIT
V _{RRM}	Peak Repetitive Reverse Voltage	200	V
I _{F(AV)}	Average Rectified Forward Current	10	Α
I _{FSM}	Nonrepetitive Peak Surge Current (Surge applied at rated load conditions half-wave, single phase, 60Hz)	80	Α
T_J	Junction Temperature	-40~150	${\mathbb C}$
T _{stg}	Storage Temperature Range	-40~150	$^{\circ}$







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THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance,Junction to Case	2.3	°C/W

ELECTRICAL CHARACTERISTICS(T_a=25°C) (Pulse Test: Pulse Width=300 μ s,Duty Cycle≤2%)

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
V _F	Maximum Instantaneous Forward Voltage	I _F =5A ;Tj=25℃	0.98	V
I _R	Maximum Instantaneous Reverse Current	V _R = 200V;Tj=25°C	10	μА
t _{rr}	Maximum Reverse Recovery Time	IF =0.5A;IR=1A	35	ns

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