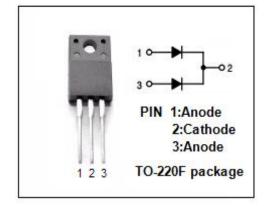


Ultrafast Recovery Rectifier

YG902C2R

FEATURES

- Ultrafast Recovery Time
- · Low Forward Voltage
- · Low Leakage Current
- 150°C Operating Junction Temperature
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

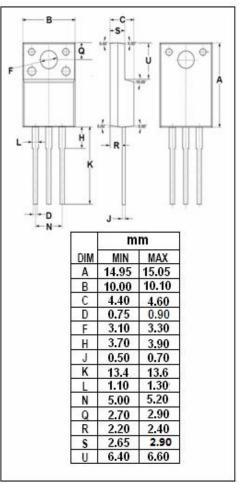


APPLICATIONS

 Designed for use in output rectification stage of SMPS, UPS,dc-to-dc converters as well as freewheeling diode in low voltage inverters and chopper motor drives.

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{RRM} V _{RWM} V _R	Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	200	٧
I _{F(AV)}	Average Rectified Forward Current Per Leg (Rated V _R) Total Device	5 10	Α
I _{FSM}	Nonrepetitive Peak Surge Current (Surge applied at rated load conditions 8.3 half-mssine Wave-According to JEDEC Method)	50	А
TJ	Junction Temperature	-40~150	$^{\circ}$
T _{stg}	Storage Temperature Range	-40~150	$^{\circ}$



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Ultrafast Recovery Rectifier

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THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance,Junction to Case	3.5	°C/W

ELECTRICAL CHARACTERISTICS(Ta=25℃) (Pulse Test: Pulse Width=300 µ s,Duty Cycle≤2%)

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
V _F	Maximum Instantaneous Forward Voltage	I _F = 5A	0.95	V
I _R	Maximum Instantaneous Reverse Current	V _{RRM} = 200V	100	μА
t _{rr}	Maximum Reverse Recovery Time	I _F = 0.1A, I _R = 0.2A, I _{REC} = 0.05A	35	ns

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