

## **Ultrafast Rectifier**

# **YG985C4R**

#### **FEATURES**

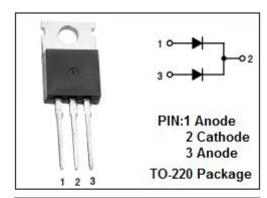
- · Ultrafast with soft recovery
- 150°C Operating temperature
- Popular TO-220 package
- Avalanche energy rated
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

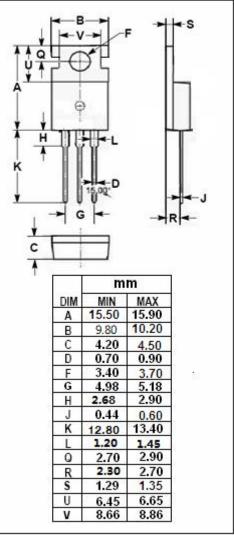
#### **APPLICATIONS**

- · Switching power supply
- Power switching circuits
- · General purpose

## ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V <sub>RRM</sub> V <sub>RWM</sub> V <sub>R</sub>	Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	400	V
I <sub>F(AV)</sub>	Average Rectified Forward Current	20	Α
I <sub>FSM</sub>	Nonrepetitive Peak Surge Current (Surge applied at rated load conditions half- wave, single phase, 60Hz)	100	Α
Тл	Junction Temperature	150	$^{\circ}$
T <sub>stg</sub>	Storage Temperature Range	-40~150	$^{\circ}$







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#### THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R <sub>th j-c</sub>	Thermal Resistance, Junction to Case		°C/W

### ELECTRICAL CHARACTERISTICS(T<sub>a</sub>=25°C) (Pulse Test: Pulse Width=300 µ s,Duty Cycle≤2%)

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
V <sub>F</sub>	Maximum Instantaneous Forward Voltage	I <sub>F</sub> =10A	1.45	V
I <sub>R</sub>	Maximum Instantaneous Reverse Current	V <sub>R</sub> = 400V	35	μА
t <sub>rr</sub>	Maximum Reverse Recovery Time	I <sub>F</sub> =0.1A;I <sub>R</sub> =0.2A,	50	ns

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