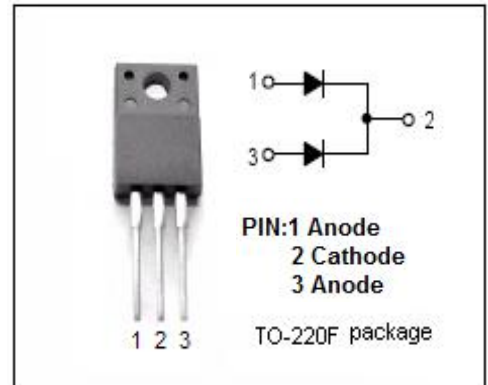


**Ultrafast Rectifier**
**YG902C3**
**FEATURES**

- Insulated package by fully molding.
- Super high speed switching.
- High reliability by planer design.
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

**APPLICATIONS**

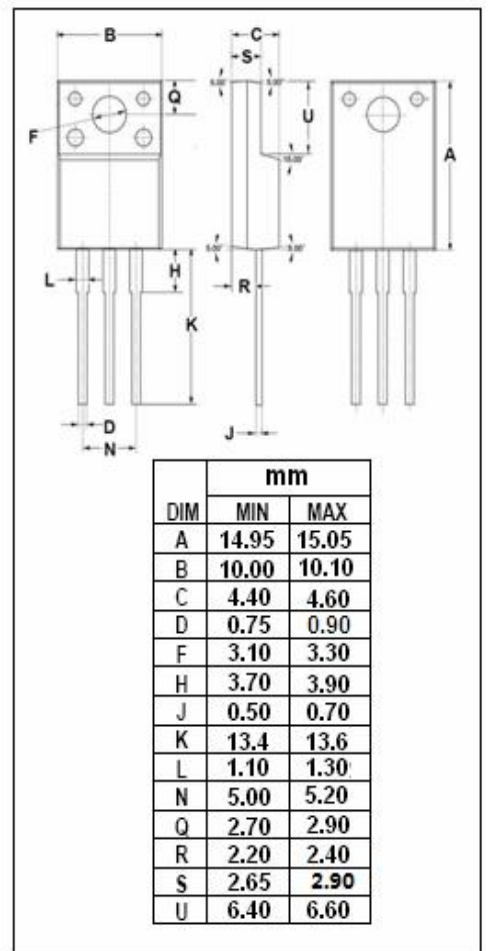
- This power rectifier is specifically designed for use as high speed power switching.


**ABSOLUTE MAXIMUM RATINGS(T<sub>a</sub>=25°C)**

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	300	V
I <sub>F(AV)</sub>	Average Rectified Forward Current	10	A
I <sub>FSM</sub>	Nonrepetitive Peak Surge Current (Surge applied at rated load conditions half-wave, single phase, 60Hz)	40	A
T <sub>J</sub>	Junction Temperature	-40~150	°C
T <sub>stg</sub>	Storage Temperature Range	-40~150	°C

**THERMAL CHARACTERISTICS**

SYMBOL	PARAMETER	MAX	UNIT
R <sub>th j-c</sub>	Thermal Resistance, Junction to Case	3.5	°C/W



## Ultrafast Rectifier

## YG902C3

**ELECTRICAL CHARACTERISTICS**( $T_a=25^{\circ}\text{C}$ ) (Pulse Test: Pulse Width=300  $\mu$  s,Duty Cycle $\leq$ 2%)

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
$V_F^*$	Maximum Instantaneous Forward Voltage	$I_F = 5\text{A}; T_j = 25^{\circ}\text{C}$	1.3	V
$I_R^*$	Maximum Instantaneous Reverse Current	$V_R = V_{RWM}$	100	$\mu$ A
$t_{rr}$	Maximum Reverse Recovery Time	$I_F = 1\text{A}; I_R = 0.2\text{A}; I_{rec} = 0.05\text{A}$	35	ns

\*:Pulse test ,Pulse width=300us,duty cycle $\leq$ 2%

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