

Ultra fast Rectifier

YG902C2

FEATURES

- With TO-220F packaging
- · High junction temperature capability
- · Low forward voltage, high current capability
- High current capability
- · Low power loss, high efficiency
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

(2)

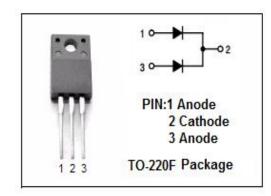
APPLICATIONS

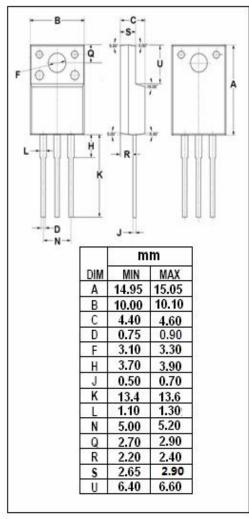
- Switching power supply
- · Free-Wheeling diodes
- · Reverse battery protection
- Center tap configuration



ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNI T
V _{RRM} V _{RMS} V _R	Peak Repetitive Reverse Voltage RMS Voltage DC Blocking Voltage	200	V
I _{F(AV)}	Average Rectified Forward Current @Tc=110℃	10	Α
I _{FSM}	Nonrepetitive Peak Surge Current (10ms single half sine-wave superimposed on rated load conditions)	500	Α
TJ	Junction Temperature	-40~150	$^{\circ}$
T _{stg}	Storage Temperature Range	-40~150	$^{\circ}$





THERMAL CHARACTERISTICS

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

ELECTRICAL CHARACTERISTICS (Pulse Test: Pulse Width=300 µ s,Duty Cycle≤1%)

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
VF	Maximum Instantaneous Forward Voltage	I _F =5A;Tc=25°C	0.95	V
I _R	Maximum Instantaneous Reverse Current	V _R = rated V _{RRM} ;Tc=25°C	100	μ Α
t _{rr}	Maximum Reverse Recovery Time	I _F =0.1A;I _R =0.2A,I _{rec} =0.05A	35	ns

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