

Ultrafast Rectifier

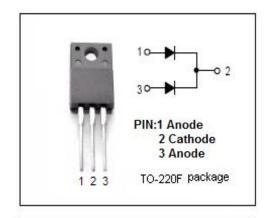
YG902C3

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(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{RRM} V _{RWM} V _R	Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	300	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)	40	Α
TJ	Junction Temperature	-40~150	°C
T _{stg}	Storage Temperature Range	-40~150	°C

THERMAL CHARACTERISTICS

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

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L	ij, K	R		
		J	m	ļļ
	DIM	MIN	MAX	
	A	14.95	15.05	8
		10.00	10.10	į.
	B C	4.40	4.60	
	D	0.75	0.90	
	F	3.10	3.30	
	Н	3.70	3.90	
	J	0.50	0.70	25
	K	13.4	13.6	
	L	1.10	1.30 5.20	
	N	5.00		
	Q	2.70	2.90	Ġ.
	R	2.20	2.40	
	S U	2.65 6.40	2.90 6.60	Š.
	1 11	0.40	n nu	1

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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 °C	1.3	V
I _{R*}	Maximum Instantaneous Reverse Current	V _R = V _{RWM}	100	μ А
t _{rr}	Maximum Reverse Recovery Time	I _F =1A;I _R =0.2A;I _{rec} =0.05A	35	ns

^{*:}Pulse test ,Pulse width=300us,duty cycle≤2%



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