

Ultrafast Recovery Rectifier

YG982S6R

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

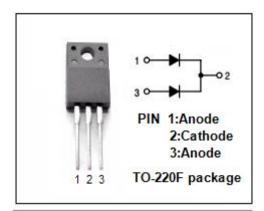


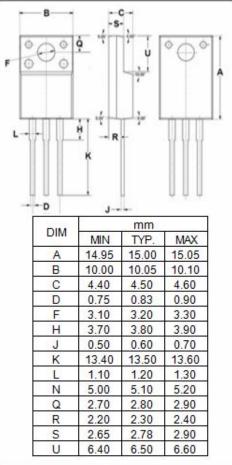
APPLICATIONS

 Designed for use in switching power supplies, inverters and as free wheeling diodes.

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	600	V
I _{F(AV)}	Average Rectified Forward Current (Rated V _R)	16	А
I _{FSM}	Nonrepetitive Peak Surge Current Sine wave, 10ms 1shot	40	А
TJ	Junction Temperature	-40~150	°C
T _{stg}	Storage Temperature Range	-40~150	°C







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THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth j-c	Thermal Resistance,Junction to Case	2.0	°C/W

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

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
VF	Maximum Instantaneous Forward Voltage	I _F = 8A	3.0	V
I _R	Maximum Instantaneous Reverse Current	V _{RRM} = 600V	25	μ А
t _{rr}	Maximum Reverse Recovery Time	IF =0.1A, IR =0.2A, Irec =0.05A	26	ns

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