

YG972S6R (Io 10A / 600V)



[200510]

Super LLD II (For PFC circuit) (current discontinuous mode)

LOW LOSS SUPER HIGH SPEED RECTIFIER

■ Features

- Insulated package by fully molding
- Super high speed switching
- High reliability by planer design

■ Applications

- PFC circuit (current continuous mode)

■ Maximum ratings and characteristics

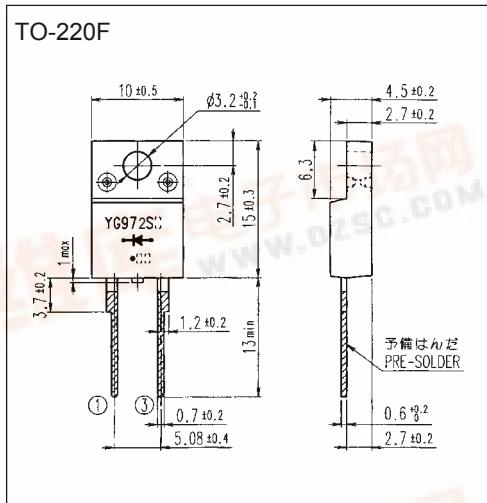
• Maximum ratings

Item	Symbol	Conditions	Rating	Unit
Repetitive peak reverse voltage	V _{RRM}		600	V
Isolating voltage	V _{iso}	Terminals-to-Case, AC.1min.	1500	V
Average output current	I _o	Square wave duty=1/2, T _c =89°C	10	A
Non-Repetitive surge current	I _{FSM}	Sine wave10ms,1shot	100	A
Operating junction temperature	T _j		150	°C
Storage temperature	T _{stg}		-40 to +150	°C

• Electrical characteristics (Ta=25°C Unless otherwise specified)

Item	Symbol	Conditions	Characteristics	Unit	
Forward voltage	V _F	I _F =10A	Max	1.55	V
Reverse current	I _R	V _R =V _{RRM}	Max.	10.0	μA
Reverse recovery time	t _{rr}	I _F =0.1A, I _R =0.2A, I _{rec} =0.05A	Max.	50.0	ns
Thermal resistance	R _{th(j-c)}	Junction to case	Max.	3.5	°C/W

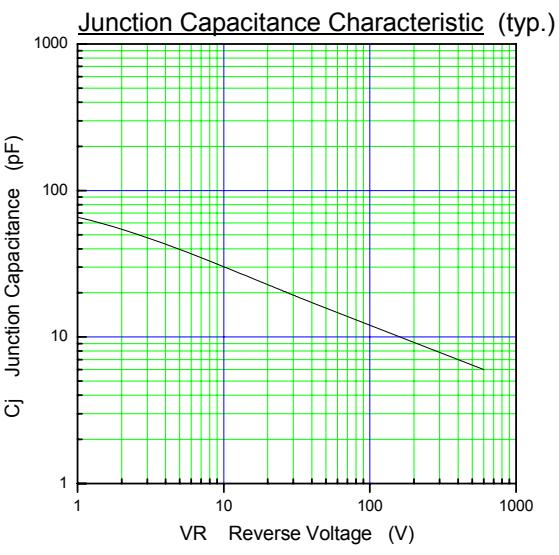
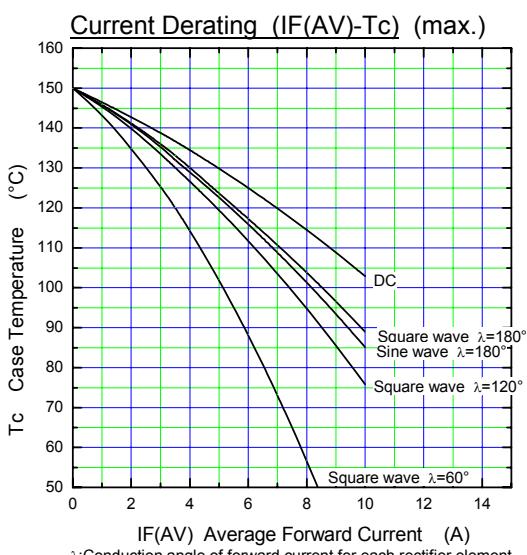
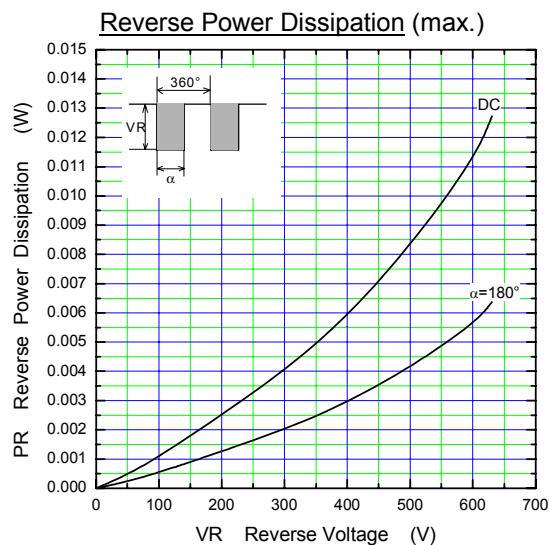
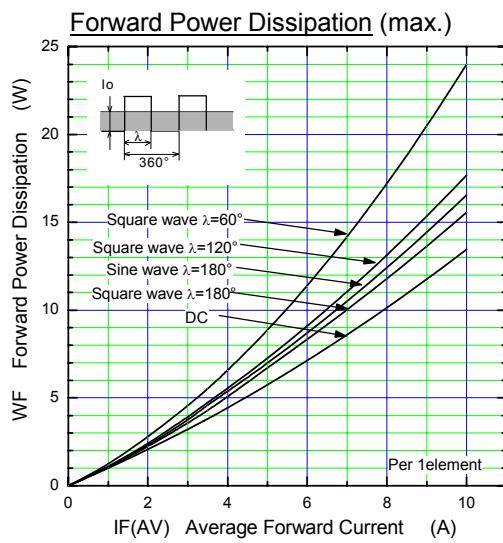
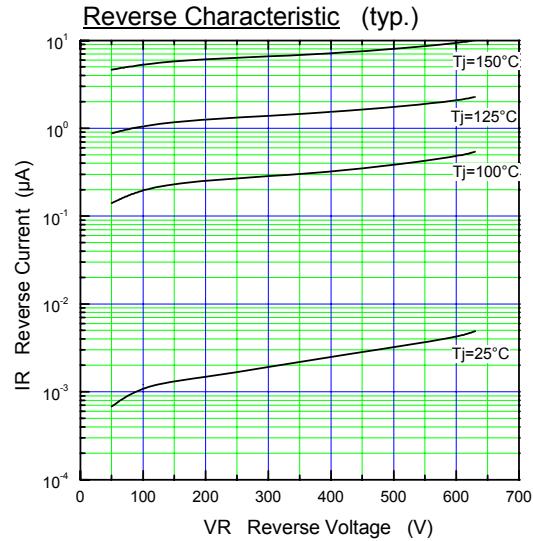
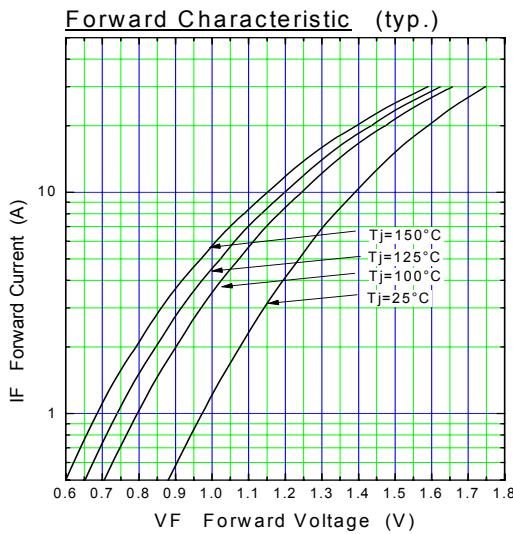
■ Outline drawings, mm



■ Connection diagram



■ Characteristics



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(TO-220F Io 10A / 600V)

