

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	Viso	Terminals-to-Case, AC.1min.	1500	V
Average output current	I_O	Square wave duty=1/2, $T_c=89^{\circ}\text{C}$	10	A
Non-Repetitive surge current	I_{FSM}	Sine wave 10ms, 1shot	100	A
Operating junction temperature	T_j		150	$^{\circ}\text{C}$
Storage temperature	T_{stg}		-40 to +150	$^{\circ}\text{C}$

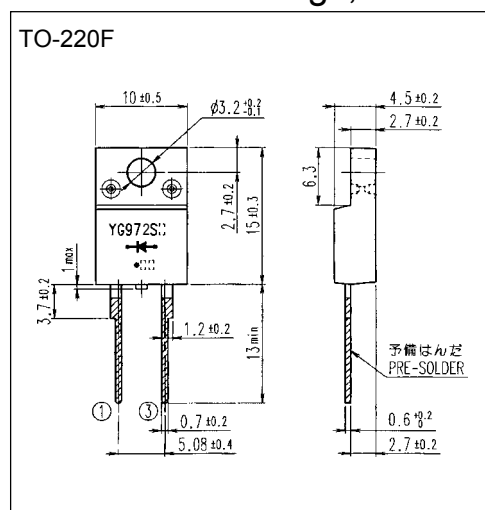
- Electrical characteristics ($T_a=25^{\circ}\text{C}$ Unless otherwise specified)

Item	Symbol	Conditions	Characteristics	Unit
Forward voltage	V_F	$I_F=10\text{A}$	Max. 1.55	V
Reverse current	I_R	$V_R=V_{RRM}$	Max. 10.0	μA
Reverse recovery time	t_{rr}	$I_F=0.1\text{A}$, $I_R=0.2\text{A}$, $I_{rec}=0.05\text{A}$	Max. 50.0	ns
Thermal resistance	$R_{th(j-c)}$	Junction to case	Max. 3.5	$^{\circ}\text{C/W}$

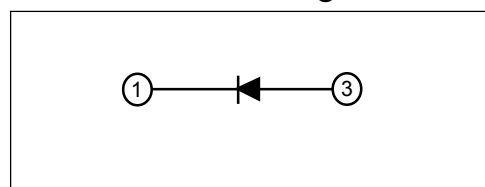
- Mechanical characteristics

Mouunting torque	Recommended torque	0.3 to 0.5	N·m
Approximate mass		2.0	g

■ Outline drawings, mm



■ Connection diagram



Characteristics

