

Super LLD2 Series

(For PFC circuit)

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 discontinuous mode)

Maximum ratings and characteristics

- Absolute maximum ratings

Item	Symbol	Conditions	Rating	Unit
Repetitive peak reverse voltage	V_{RRM}		600	V
Isolation voltage	V_{iso}		1500	V
Average output current	I_o	duty=1/2, $T_c=89^\circ\text{C}$ Square wave	20*	A
Non-Repetitive surge current **	I_{FSM}	Sine wave 10ms	100	A
Operating junction temperature	T_j		150	$^\circ\text{C}$
Storage temperature	T_{stg}		-40 to +150	$^\circ\text{C}$

*Out put current of centertap full wave connection

** Rating per 1 element

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

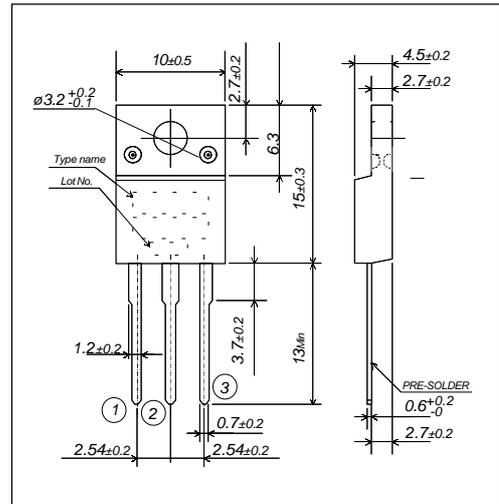
Item	Symbol	Conditions	Characteristics	Unit
Forward voltage ***	V_F	$I_F=10\text{A}$	Max. 1.55	V
Reverse current ***	I_R	$V_R=V_{RRM}$	Max. 10.0	μA
Reverse recovery time ***	t_{rr}	$I_F=0.1\text{A}$, $I_R=0.2\text{A}$, $t_{rec}=0.05\text{A}$	Max. 50.0	ns
Thermal resistance	$R_{th(j-c)}$	Junction to case	Max. 1.75	$^\circ\text{C/W}$

*** Rating per 1 element

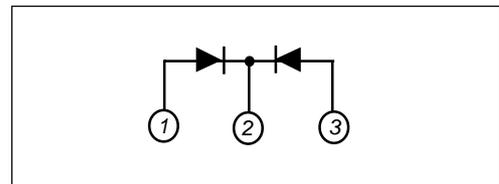
- Mechanical characteristics

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

Outline drawings, mm



Connection diagram



Characteristics

