

Super LLD (For PFC circuit) (current continuous mode)

LOW LOSS SUPER HIGH SPEED RECTIFIER

■ Features

- 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
Non-Repetitive peak reverse voltage	V_{RSM}		600	V
Peak forward current	I_P		30*	A
Average output current	I_O	Square wave duty=1/2, $T_c=97^\circ\text{C}$	10*	A
Non-Repetitive surge current	I_{FSM}	Sine wave 10ms, 1shot	40	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.

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

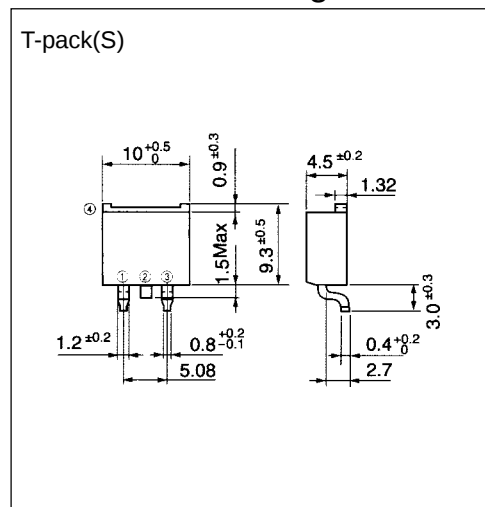
Item	Symbol	Conditions	Characteristics	Unit
Reverse recovery peak current **	I_{RP}	$I_F=5\text{A}$, $-di/dt=200\text{A}/\mu\text{s}$, $V_R=380\text{V}$ $T_j=100^\circ\text{C}$	Typ. 2.5	A
Reverse recovery time **	t_{rr}	$I_F=0.1\text{A}$, $I_R=0.2\text{A}$, $I_{rec}=0.05\text{A}$	Max. 30.0	ns
Forward voltage **	V_F	$I_F=15\text{A}$	Max. 5.0	V
Reverse current **	I_R	$V_R=V_{RRM}$	Max. 50.0	μA
Thermal resistance	$R_{th(j-c)}$	Junction to case	Max. 2.0	$^\circ\text{C}/\text{W}$

** Rating per element

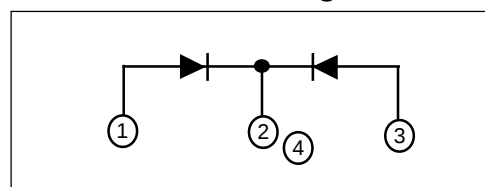
- Mechanical characteristics

Mouunting torque	Recommended torque	0.4 to 0.6	N·m
Approximate mass		2.0	g

■ Outline drawings, mm



■ Connection diagram



Characteristics

