

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

LOW LOSS SUPER HIGH SPEED RECTIFIER

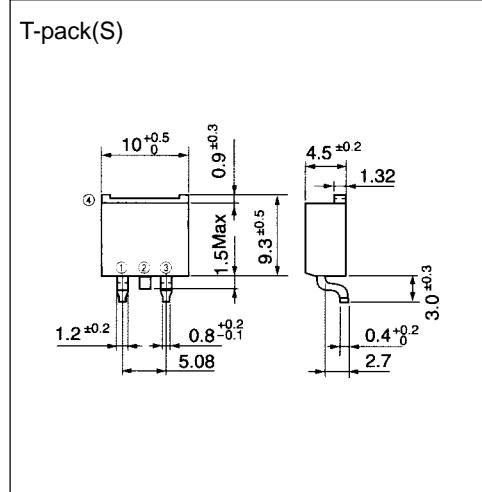
■ Features

- Super high speed switching
- High reliability by planer design

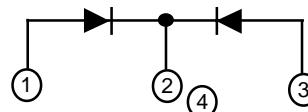
■ Applications

- PFC circuit (current continuous mode)

■ Outline drawings, mm



■ Connection diagram



■ 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°C	10*	A
Non-Repetitive surge current	I _{FSM}	Sine wave 10ms, 1shot	40	A
Operating junction temperature	T _j		150	°C
Storage temperature	T _{stg}		-40 to +150	°C

* Out put current of centertap full wave connection.

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

Item	Symbol	Conditions	Characteristics	Unit
Reverse recovery peak current **	I _{RP}	I _F =5A, -di/dt=200A/μs, V _R =380V T _j =100°C	Typ. 2.5	A
Reverse recovery time **	t _{rr}	I _F =0.1A, I _R =0.2A, I _{rec} =0.05A	Max. 30.0	ns
Forward voltage **	V _F	I _F =15A	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	°C/W

** Rating per element

● Mechanical characteristics

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

■ Characteristics

