

PH967C6 (Ip 30A)

(Ip 30A / 600V)

Super LLD (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 continuous mode)

■ Maximum ratings and characteristics

- Absolute maximum ratings

Item	Symbol	Conditions	Rating	Unit
Repetitive peak reverse voltage	V_{RRM}		600	V
Non-Repetitive peak reverse voltage	V_{RSM}		600	V
Surge peak forward current	I_{PS}	$tw \leq 200ns$	40*	A
Peak forward current	I_P		30*	A
Average output current	I_O	duty=1/2, $T_c=110^\circ C$ Square wave	10*	A
Non-Repetitive surge current	I_{FSM}	Sine wave 10ms, 1shot	40	A
Operating junction temperature	T_j		150	$^\circ C$
Storage temperature	T_{stg}		-40 to +150	$^\circ C$

* Out put current of centertap full wave connection.

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

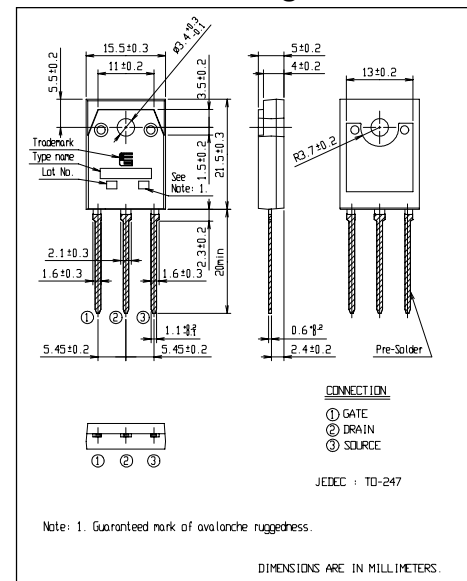
Item	Symbol	Conditions	Characteristics	Unit
Reverse recovery peak current**	I_{RP}	$I_F=5A, -di/dt=200A/\mu s, V_R=380V, T_j=100^\circ C$	Typ. 2.5	A
Reverse recovery time **	t_{rr}	$I_F=0.1A, I_R=0.2A, I_{rec}=0.05A$	Max. 30.0	ns
Forward voltage **	V_F	$I_F=15A$	Max. 5.0	V
Reverse current **	I_R	$V_R=V_{RRM}$	Max. 50.0	μA
Thermal resistance	$R_{th(j-c)}$	Junction to case	Max. 1.5	$^\circ C/W$

** Rating per element

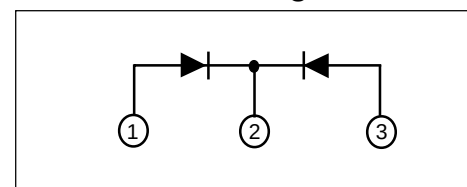
- Mechanical characteristics

Mouunting torque	Recommended torque	0.4 to 0.6	N·m
Approximate mass		4.9	g

■ Outline drawings, mm

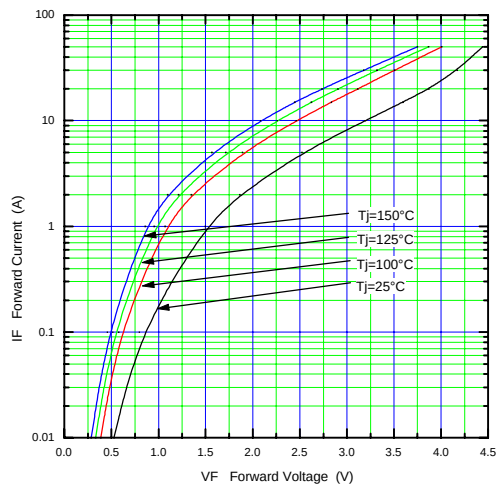


■ Connection diagram

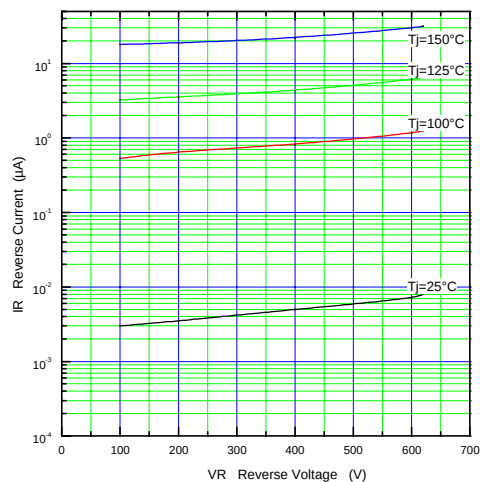


Characteristics

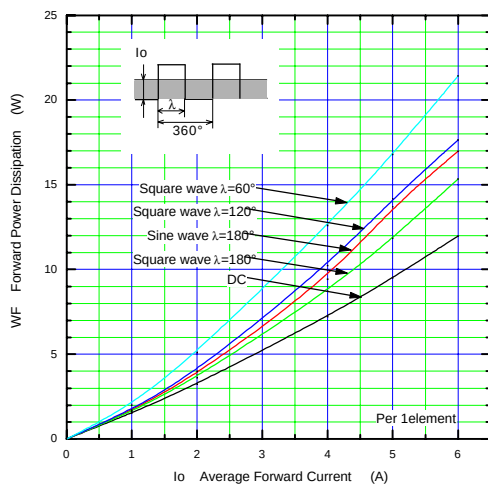
Forward Characteristic (typ.)



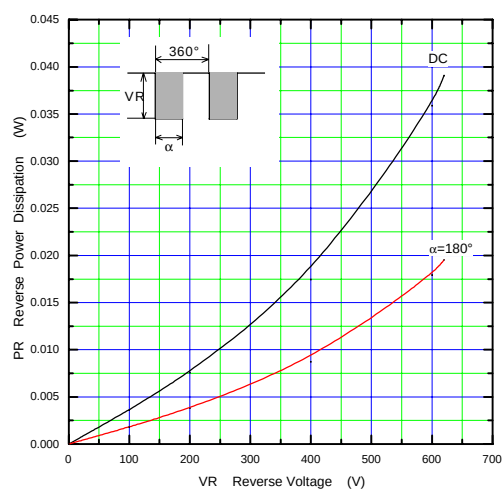
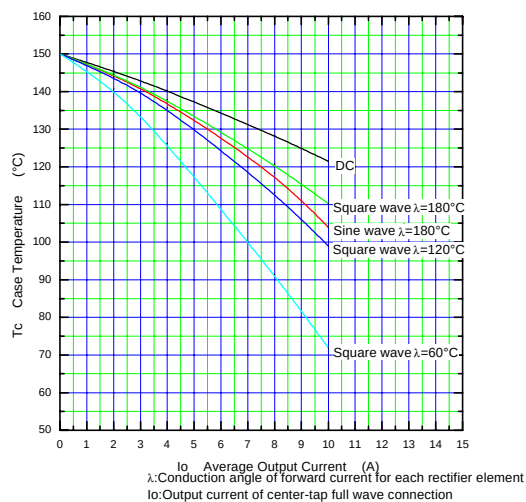
Reverse Characteristic (typ.)



Forward Power Dissipation



Reverse Power Dissipation

Current Derating (I_o - T_c)

Junction Capacitance Characteristic (typ.)

