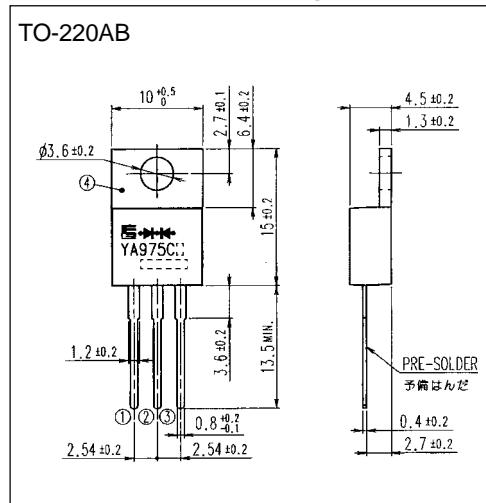


Super LLD II (For PFC circuit) (current discontinuous mode)

LOW LOSS SUPER HIGH SPEED RECTIFIER

■ Outline drawings, mm



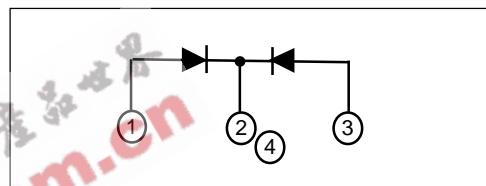
■ Features

- Super high speed switching
- High reliability by planer design

■ Applications

- PFC circuit (current continuous mode)

■ Connection diagram



■ Maximum ratings and characteristics

● Maximum ratings

Item	Symbol	Conditions	Rating	Unit
Repetitive peak reverse voltage	V _{RRM}		600	V
Average output current	I _o	Square wave duty=1/2, T _c =106°C	20 *	A
Non-Repetitive surge current	I _{FSM}	Sine wave 10ms, 1shot	100	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)

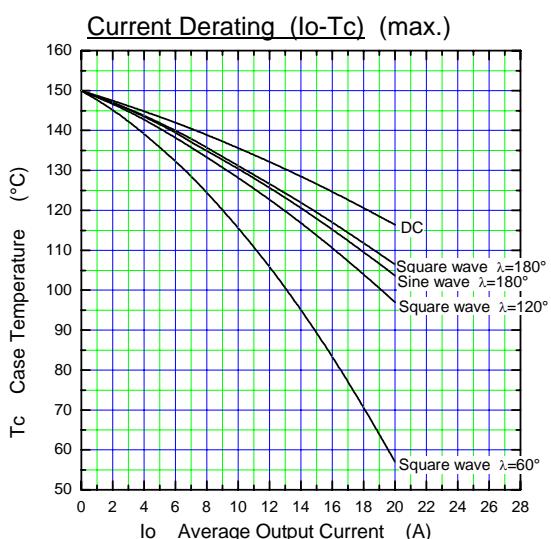
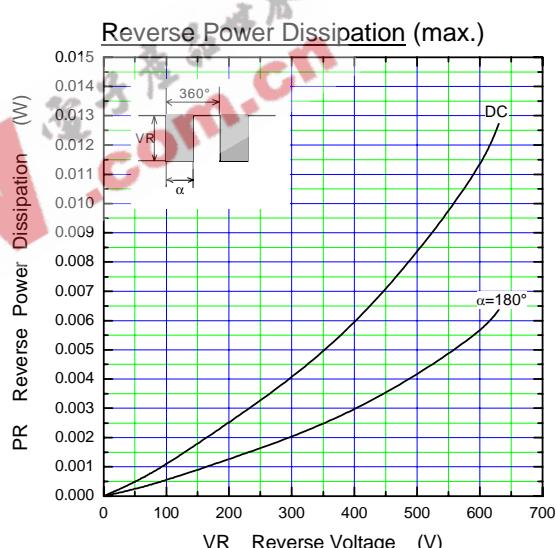
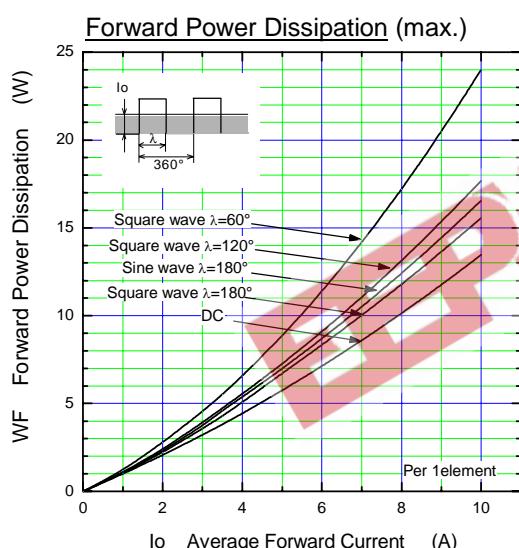
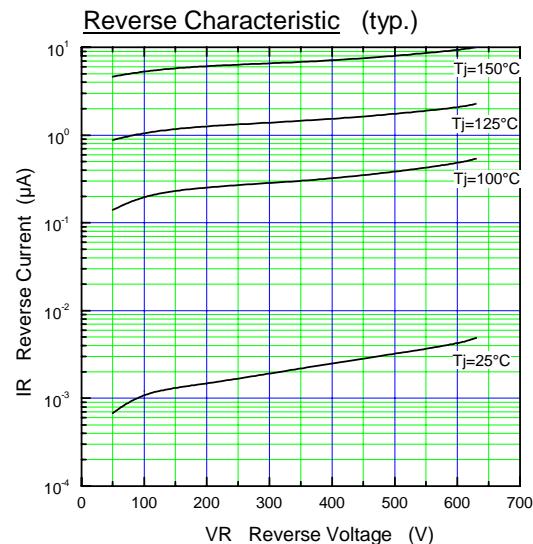
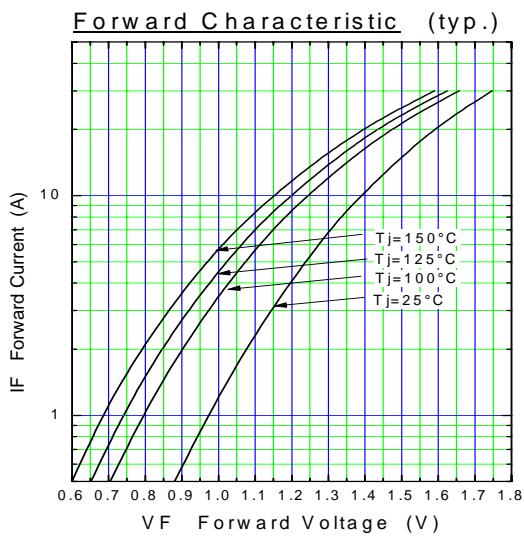
Item	Symbol	Conditions	Characteristics	Unit
Forward voltage	V _F	I _F =10A	Max 1.55	V
Reverse current	I _R	V _R =V _{RRM}	Max. 10.0	μA
Reverse recovery time	t _{rr}	I _F =0.1A, I _R =0.2A, I _{rec} =0.05A	Max. 50.0	ns
Thermal resistance	R _{th(j-c)}	Junction to case	Max. 1.25	°C/W

** Rating per element

● Mechanical characteristics

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

■ Characteristics



λ : Conduction angle of forward current for each rectifier element
Io: Output current of center-tap full wave connection

