

LOW LOSS SUPER HIGH SPEED DIODE

■ Features

- Low VF
- Super high speed switching.
- High reliability by planer design.

■ Applications

- High speed power switching.

■ Maximum Ratings and Characteristics

● Absolute Maximum Ratings

Item	Symbol	Conditions	Rating	Unit
Repetitive peak reverse voltage	V _{RRM}		200	V
Repetitive peak surge reverse voltage	V _{RSM}		200	V
Isolating voltage	V _{iso}	Terminals to Case, AC. 1min.	1500	V
Average output current	I _O	duty=1/2, T _C =120°C Square wave	5*	A
Surge current	I _{FSM}	Sine wave 10ms	25	A
Operating junction temperature	T _j		-40 to +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)

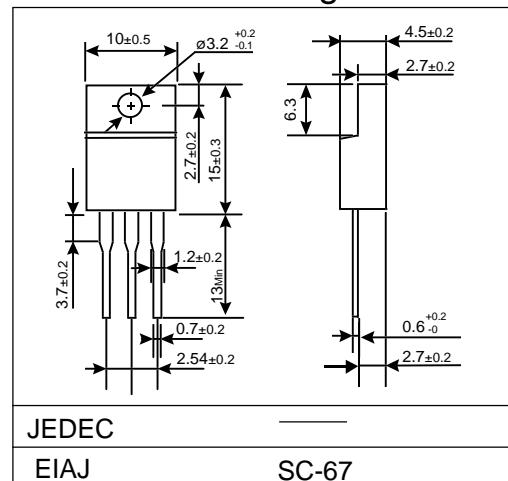
Item	Symbol	Conditions	Max.	Unit
Forward voltage drop **	V _F	I _F =2.5A	0.95	V
Reverse current **	I _R	V _R =V _{RRM}	100	µA
Reverse recovery time	t _{rr}	I _F =0.1A,I _R =0.2A,I _{rec} =0.05A	35	ns
Thermal resistance	R _{th(j-c)}	Junction to case	3.5	°C/W

** Rating per element

● Mechanical Characteristics

Mounting torque	Recommended torque	0.3 to 0.5	N · m
Weight		2.3	g

■ Outline Drawings

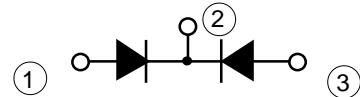


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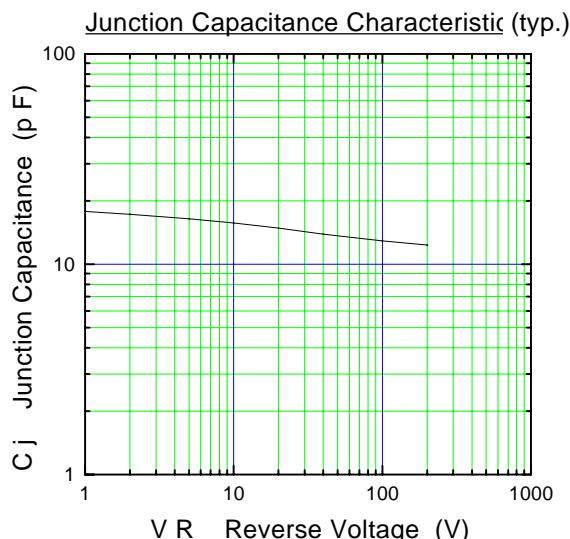
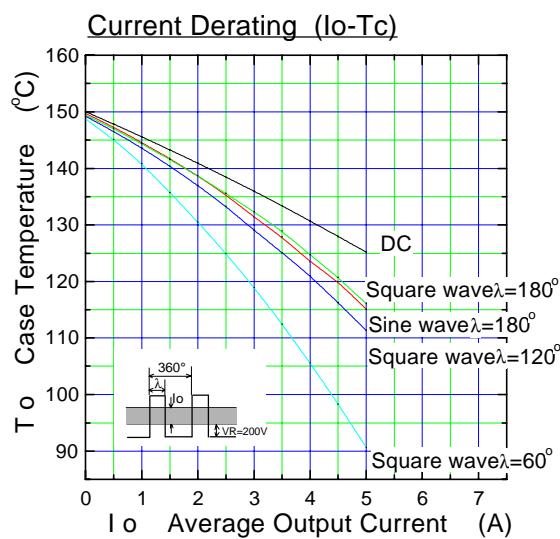
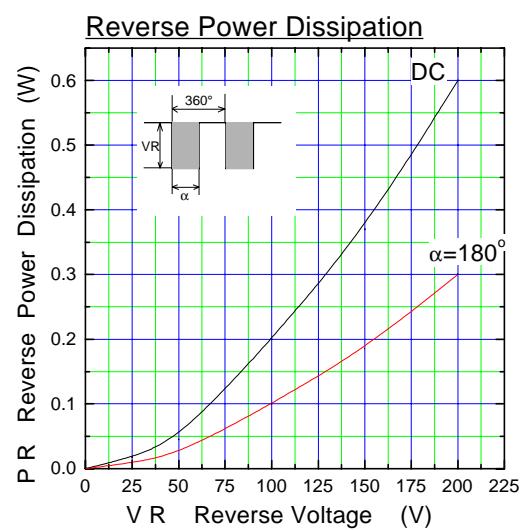
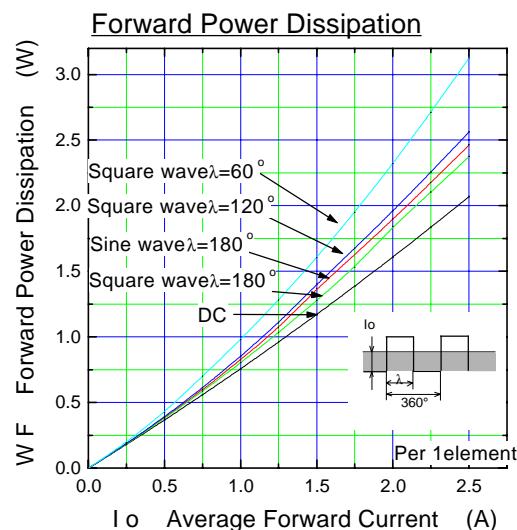
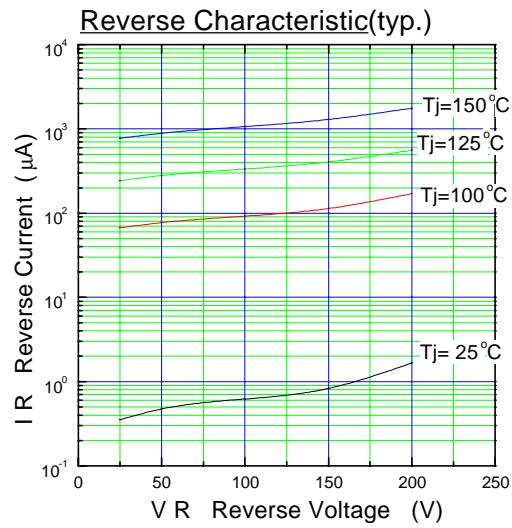
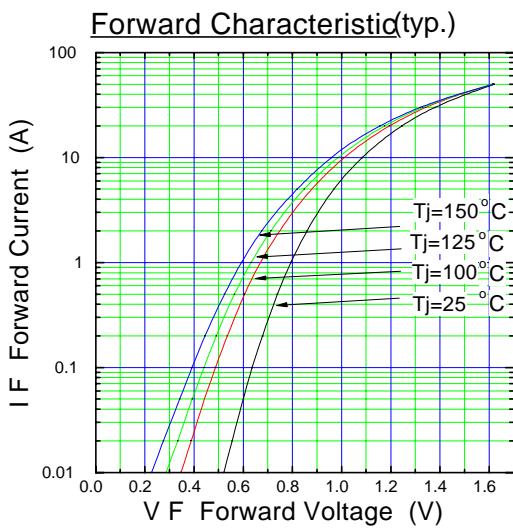
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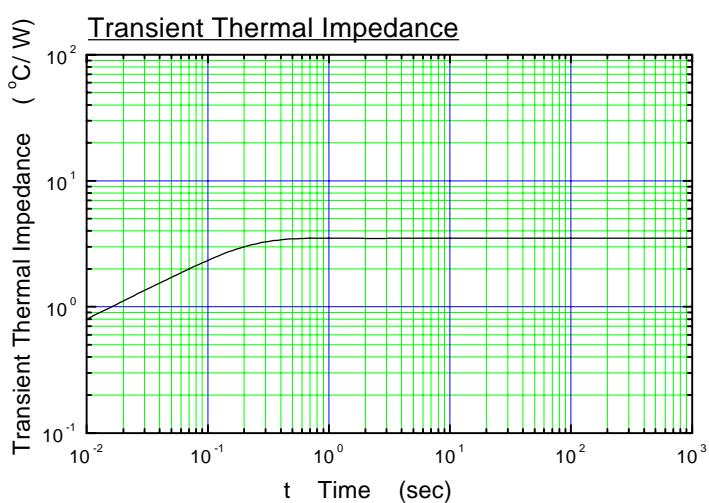
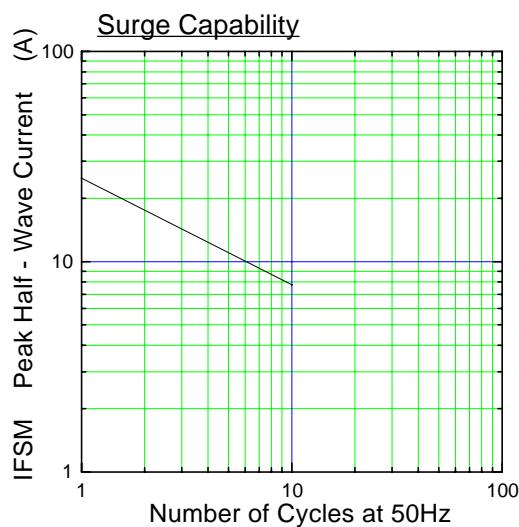
■ Connection Diagram



■ Characteristics



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



DERATING

