

## LOW LOSS SUPER HIGH SPEED RECTIFIER

勝特力材料 886-3-5753170  
胜特力电子(上海) 86-21-34970699  
胜特力电子(深圳) 86-755-83298787  
[Http://www.100y.com.tw](http://www.100y.com.tw)

### ■ Features

- Insulated package by fully molding
- 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	$V_{RRM}$		300	V
Non-Repetitive peak reverse voltage	$V_{RSM}$		300	V
Isolating voltage	$V_{iso}$	Terminals-to-case, AC. 1 min.	1500	V
Average output current	$I_o$	Square wave, duty=1/2, $T_c=96^\circ C$	20*	A
Surge current	$I_{FSM}$	Sine wave 10ms	80	A
Operating junction temperature	$T_j$		-40 to +150	°C
Storage temperature	$T_{stg}$		-40 to +150	°C

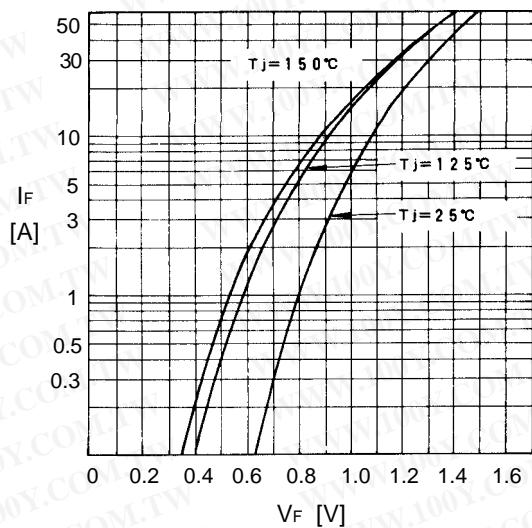
\* Average forward current of centertap full wave connection

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

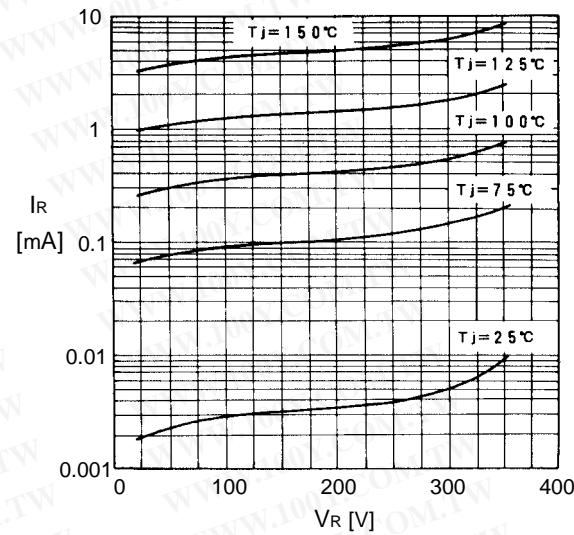
Item	Symbol	Conditions	Max.	Unit
Forward voltage drop	$V_{FM}$	$I_{FM}=10A$	1.2	V
Reverse current	$I_{RRM}$	$V_R=V_{RRM}$	200	μA
Reverse recovery time	$t_{rr}$	$I_F=0.1A, I_R=0.2A, I_{rec}=0.05A$	40	ns
Thermal resistance	$R_{th(j-c)}$	Junction to case	2.0*	°C/W

## ■ Characteristics

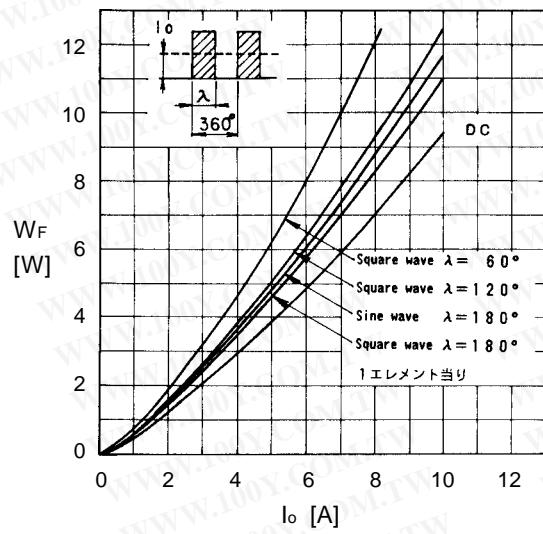
Forward characteristics



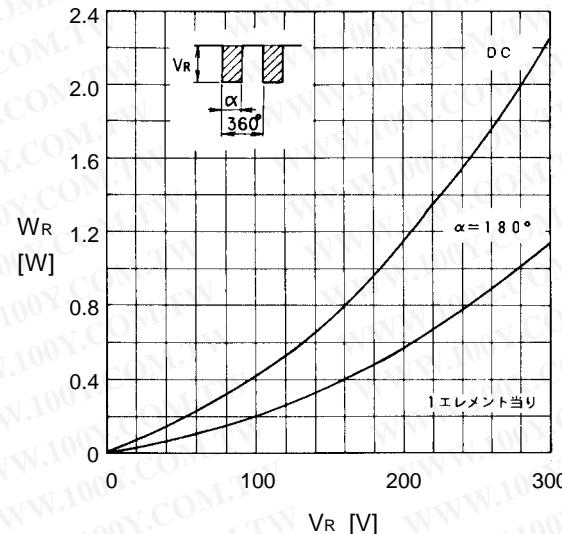
Reverse characteristics



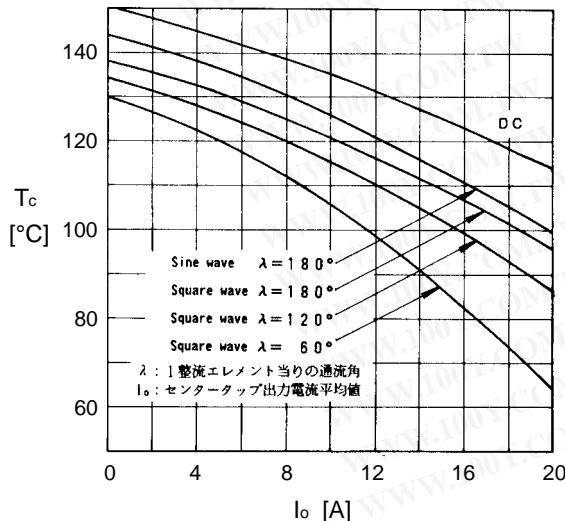
Forward power dissipation



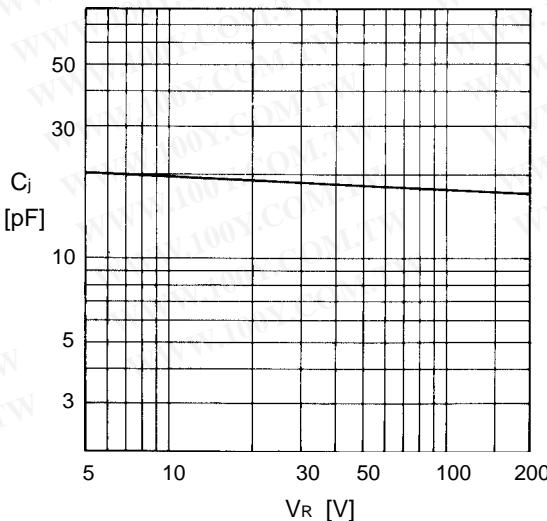
Reverse power dissipation



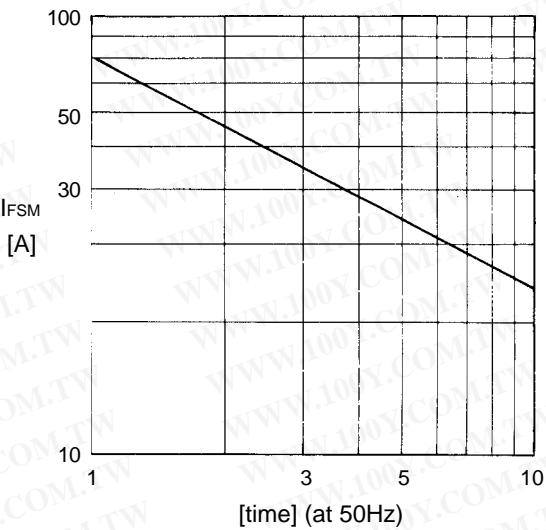
Output current-case temperature



Junction capacitance characteristics



Surge capability



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Transient thermal impedance

