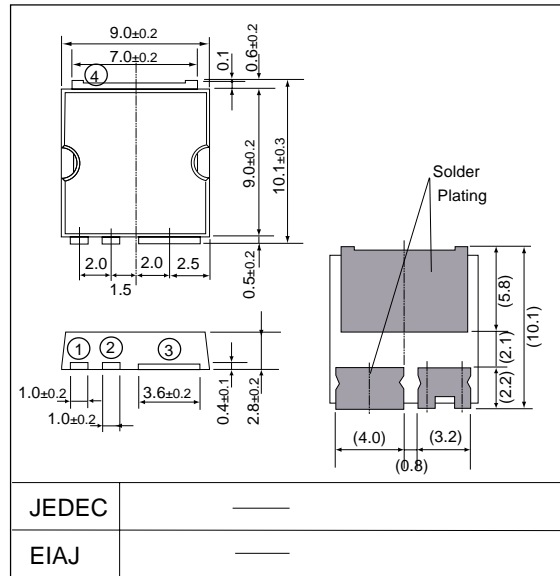


# MS906C2

(200V / 20A)

## LOW LOSS SUPER HIGH SPEED RECTIFIER

### Outline drawings, mm



### Features

- Surface-mount device
- Low  $V_F$
- Super high speed switching
- High reliability by planer design

### Applications

- High speed power switching

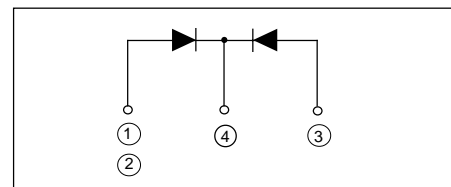
### Maximum ratings and characteristics

- Absolute maximum ratings

Item	Symbol	Conditions	Rating	Unit
Repetitive peak reverse voltage	$V_{RRM}$		200	V
Average output current	$I_O$	duty=1/2, $T_c=105^\circ\text{C}$ Square wave	20 *	A
Surge current	$I_{FSM}$	Sine wave 10ms , 1shot	80	A
Operating junction temperature	$T_j$		-40 to +150	$^\circ\text{C}$
Storage temperature	$T_{stg}$		-40 to +150	$^\circ\text{C}$

\*Output current of centertap full wave connector

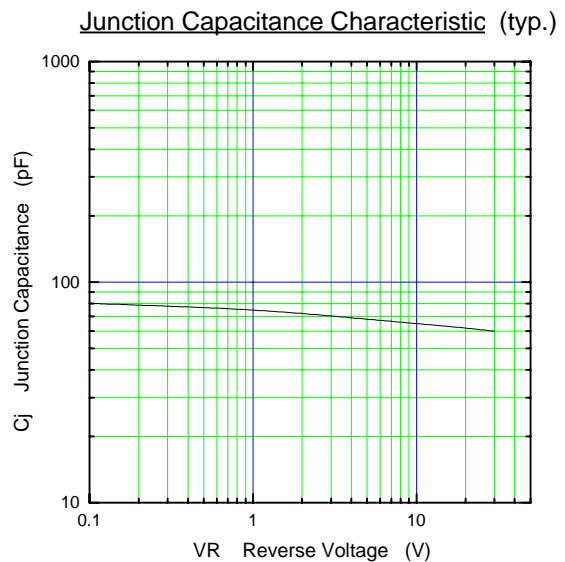
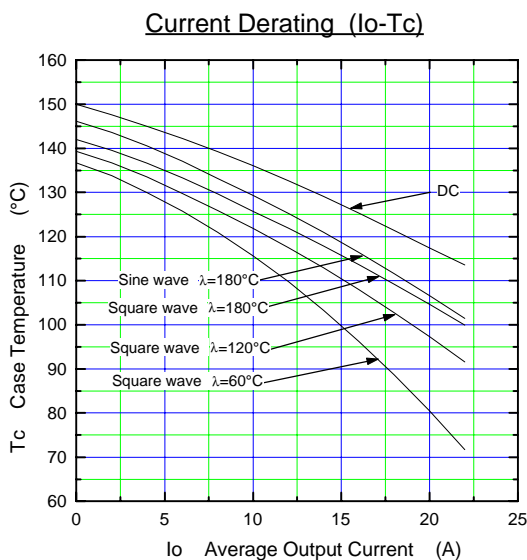
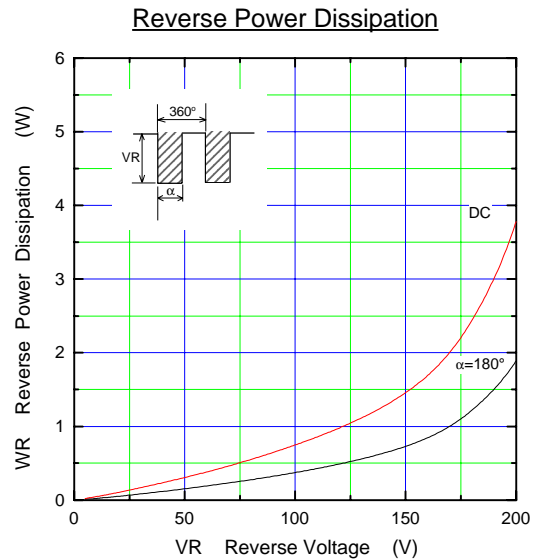
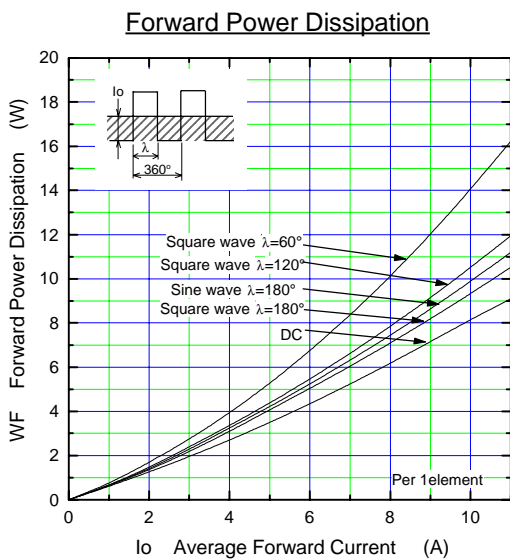
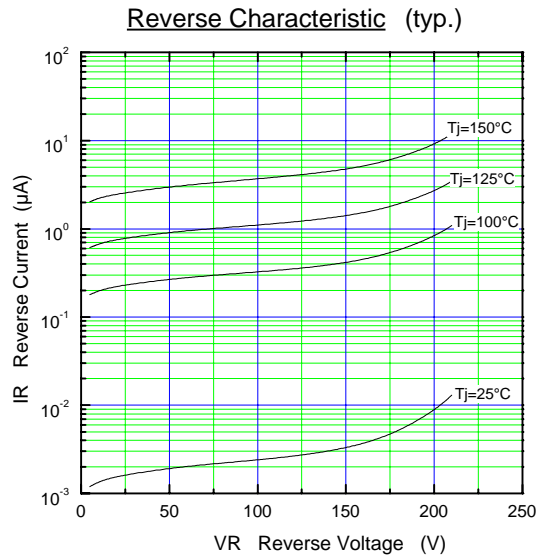
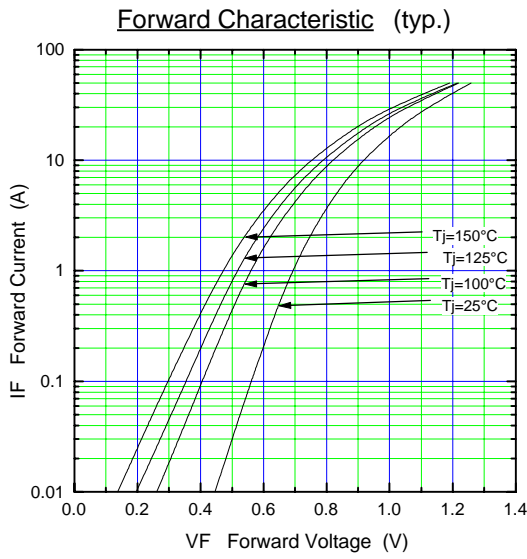
### Connection diagram



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

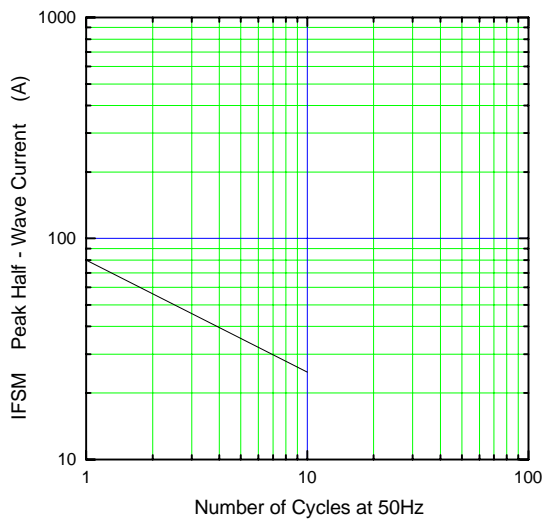
Item	Symbol	Conditions	Max.	Unit
Forward voltage drop	$V_{FM}$	$I_{FM}=10\text{A}$	0.95	V
Reverse current	$I_{RRM}$	$V_R=V_{RRM}$	200	$\mu\text{A}$
Reverse recovery time	$t_{rr}$	$I_F=0.1\text{A}$ , $I_R=0.2\text{A}$	35	ns
Thermal resistance	$R_{th(j-c)}$	Junction to case	2.0	$^\circ\text{C/W}$

**■ Characteristics**



$\lambda$ : Conduction angle of forward current for each rectifier element  
 $I_o$ : Output current of center-tap full wave connection

Surge Capability



Transient Thermal Impedance

