

## Features

- Low forward voltage drop
- High reverse voltage
- Hermetic metal cases with ceramic insulators

 **$I_{F(AV)}$  2910A** **$V_{RRM}$  200 ~ 1400V**

## Typical Applications

- All purpose high power rectifier diodes
- High power resistance welding equipment
- Non-controllable and half-controllable rectifiers
- Controlled rectifiers

 **$I_{FSM}$  31 kA** **$I^2t$  4805  $10^3 A^2S$** 

SYMBOL	CHARACTERISTIC	TEST CONDITIONS		$T_j(^{\circ}C)$	VALUE			UNIT
					Min	Type	Max	
$I_{F(AV)}$	Mean forward current	180° half sine wave 50Hz Double side cooled,	$T_C=85^{\circ}C$	190			2910	A
$V_{RRM}$	Repetitive peak reverse voltage	tp=10ms		190	200		1400	V
$I_{RRM}$	Repetitive peak current	at $V_{RRM}$		190			80	mA
$I_{FSM}$	Surge forward current	10ms half sine wave $V_R=0.6V_{RRM}$		190			31	kA
$I^2t$	$I^2t$ for fusing coordination						4805	$A^2s \cdot 10^3$
$V_{FO}$	Threshold voltage			190			0.80	V
$r_F$	Forward slope resistance						0.14	m $\Omega$
$V_{FM}$	Peak forward voltage	$I_{FM}=3000A, F=24kN$		25			2.00	V
$Q_{rr}$	Recovery charge	$I_{FM}=2000A, tp=4000\mu s, di/dt=-20A/\mu s, V_R=100V$		190		3300		$\mu C$
$R_{th(j-c)}$	Thermal resistance Junction to case	D.C. double side cooled Clamping force 24.0 kN					0.020	$^{\circ}C/W$
$R_{th(c-h)}$	Thermal resistance case to heat sink					0.005		
$F_m$	Mounting force				19		26	kN
$T_{vj}$	Junction temperature				-40		190	$^{\circ}C$
$T_{slg}$	Stored temperature				-40		190	$^{\circ}C$
$W_t$	Weight					440		g
Outline	P42							

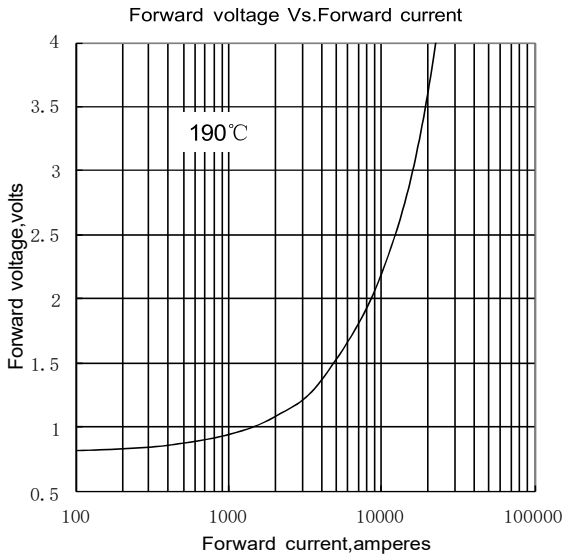


Fig.1

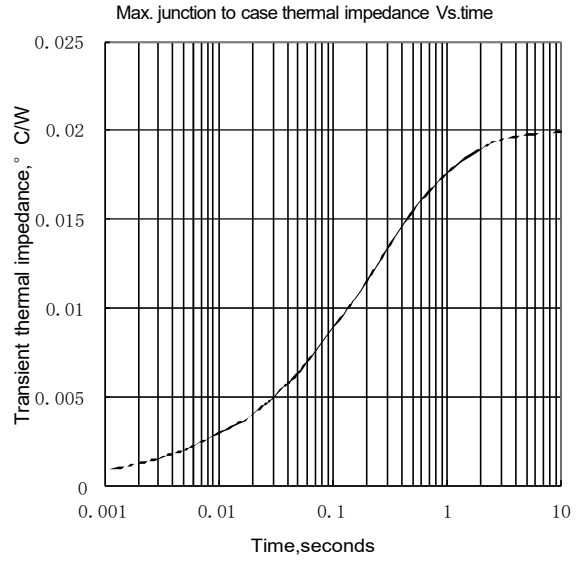


Fig.2

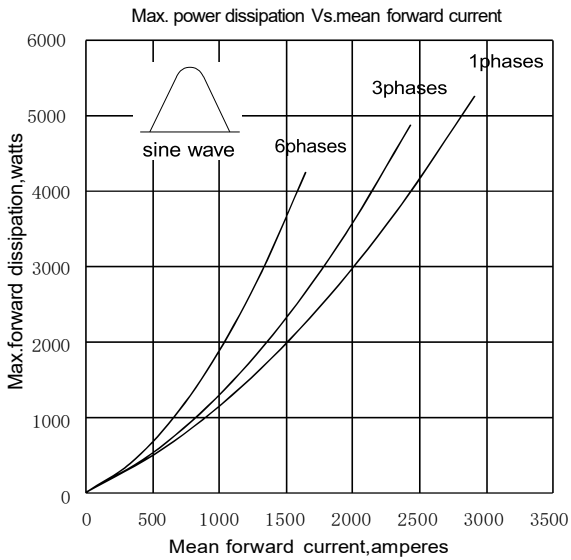


Fig.3

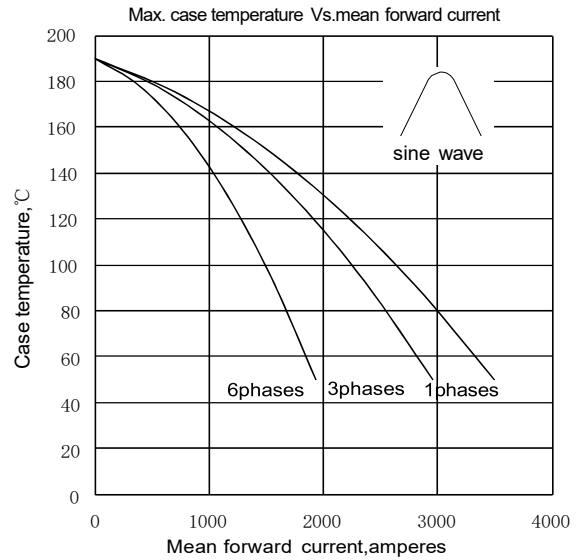


Fig.4

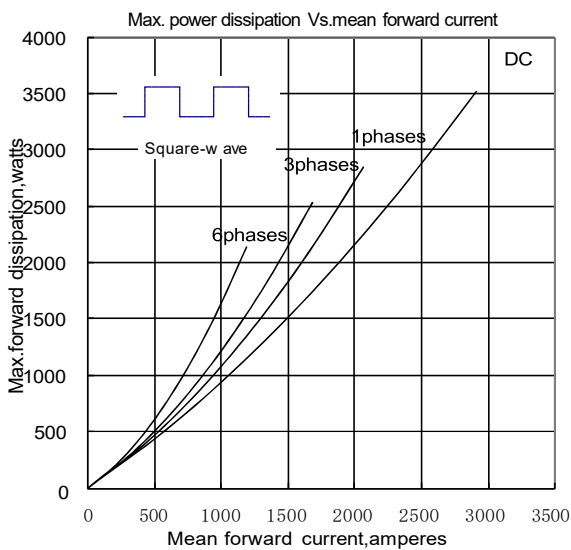


Fig.5

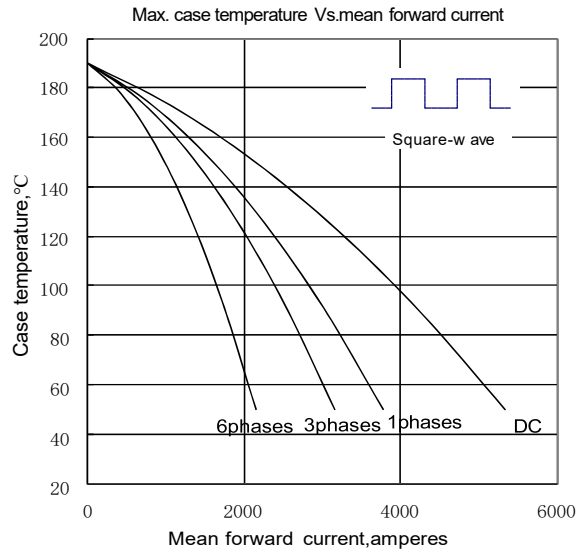


Fig.6

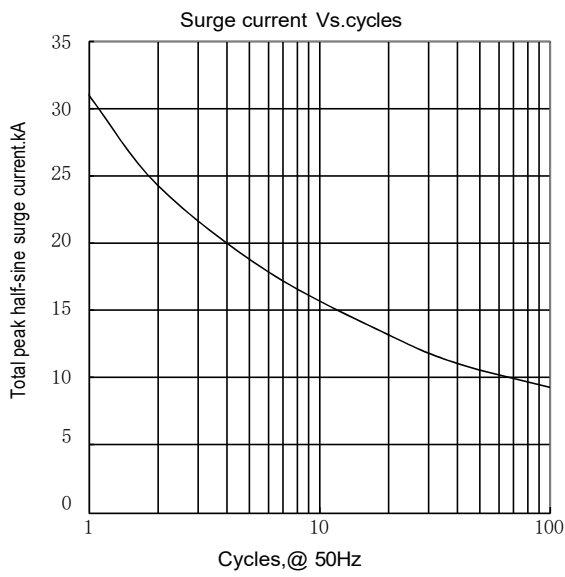


Fig.7

Outline:

