

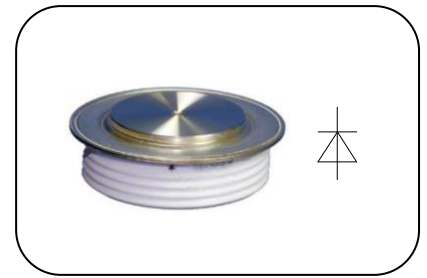
#### Features

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

#### Typical Applications

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

**$I_{F(AV)}$  2160A**  
 **$V_{RRM}$  200~1000 V**  
 **$I_{FSM}$  19 kA**  
 **$I^2t$  1805  $10^3 A^2S$**



SYMBOL	CHARACTERISTIC	TEST CONDITIONS	$T_i(^{\circ}C)$	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			2160	A
$V_{RRM}$	Repetitive peak reverse voltage	$t_p=10ms$	190	200		1000	V
$I_{RRM}$	Repetitive peak current	at $V_{RRM}$	190			50	mA
$I_{FSM}$	Surge forward current	10ms half sine wave	190			19	kA
$I^2t$	$I^2t$ for fusing coordination	$V_R=0.6V_{RRM}$				1805	$A^2s \cdot 10^3$
$V_{FO}$	Threshold voltage		190			0.86	V
$r_F$	Forward slope resistance					0.165	m $\Omega$
$V_{FM}$	Peak forward voltage	$I_{FM}=3000A, F=18kHz$	190			1.36	V
$Q_{rr}$	Recovery charge	$I_{FM}=2000A, t_p=2000\mu s, di/dt=-20A/\mu s, V_R=50V$	190		1900		$\mu C$
$R_{th(j-c)}$	Thermal resistance Junction to case	At 180° sine double side cooled Clamping force 18.0kN				0.028	$^{\circ}C/W$
$R_{th(c-h)}$	Thermal resistance case to heat sink					0.0075	
$F_m$	Mounting force			15		20	kN
$T_{stg}$	Stored temperature			-40		190	$^{\circ}C$
$W_t$	Weight				320		g
Outline	P40						

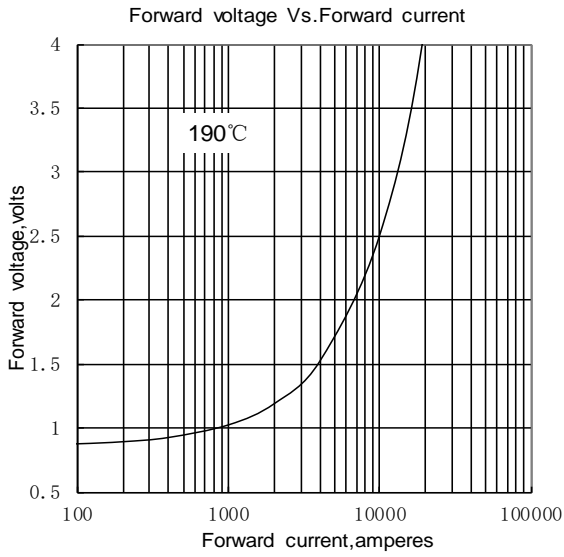


Fig.1

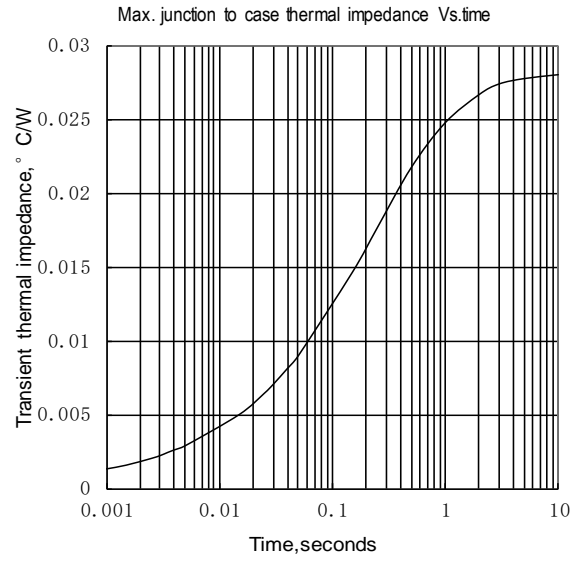


Fig.2

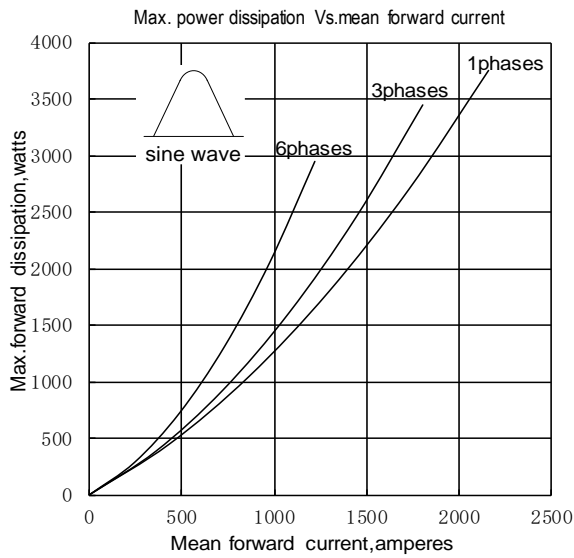


Fig.3

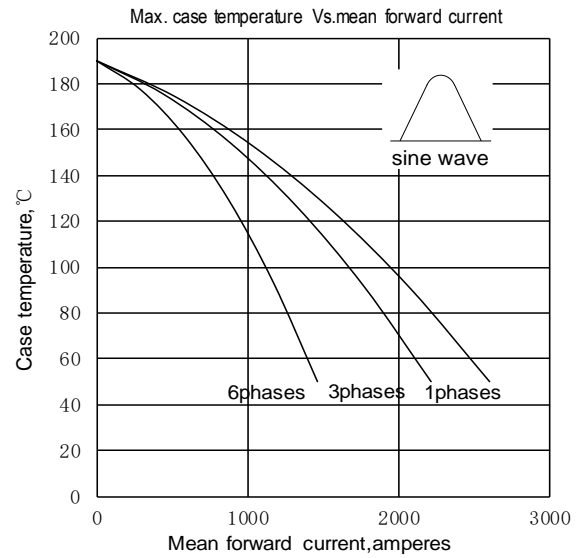


Fig.4

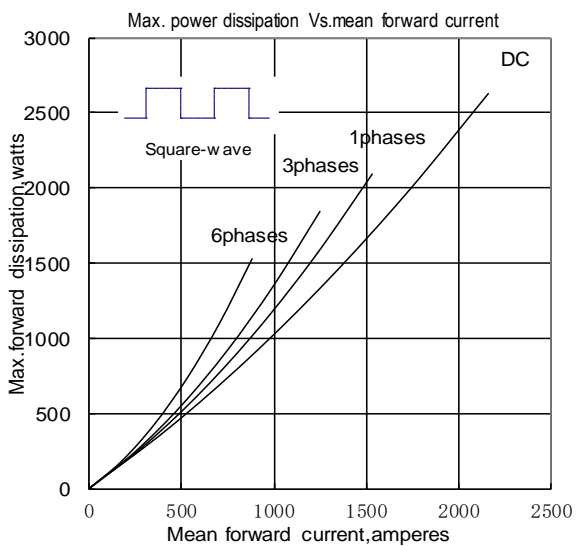


Fig.5

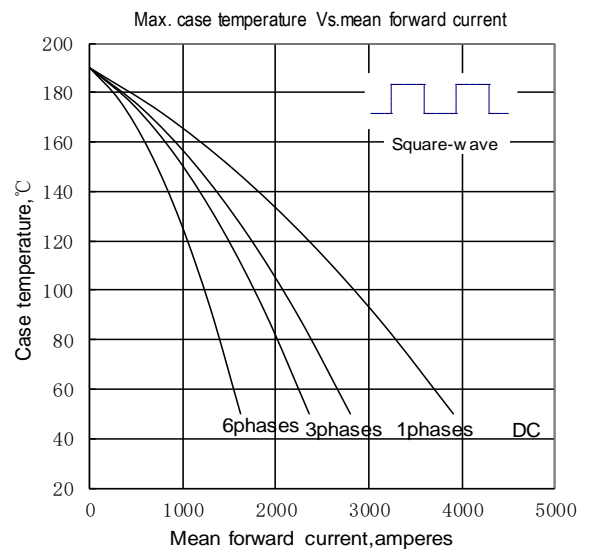


Fig.6

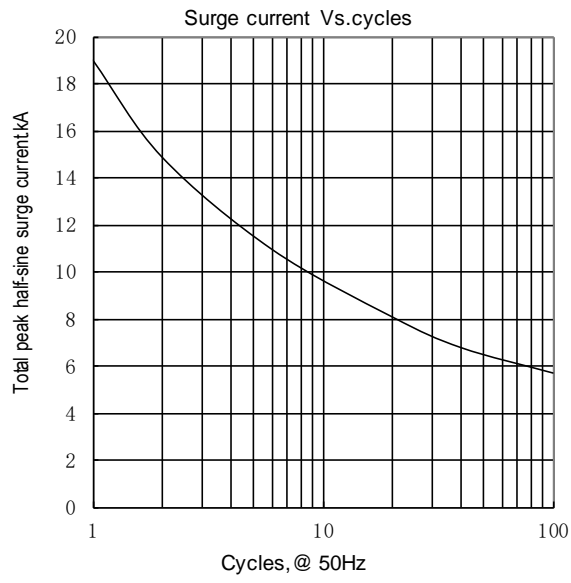


Fig.7

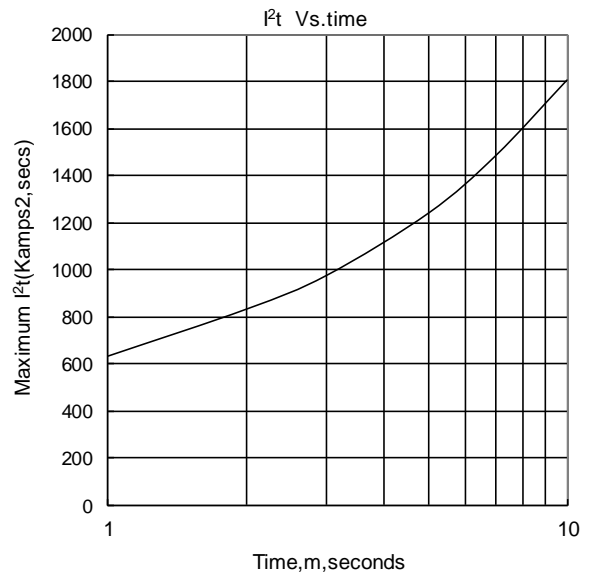


Fig.8

