

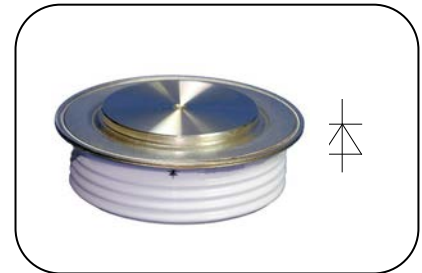
**Features**

- 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

**$I_{F(AV)}$             2210 A**  
 **$V_{RRM}$              2100~3000 V**  
 **$I_{FSM}$               23 kA**  
 **$I^2t$                  2645  $10^3 A^2S$**



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,	$T_c=85^{\circ}C$	160			2210	A
$V_{RRM}$	Repetitive peak reverse voltage	tp=10ms		160	2100		3000	V
$I_{RRM}$	Repetitive peak current	At $V_{RRM}$		160			80	mA
$I_{FSM}$	Surge forward current	10ms half sine wave		160			23	kA
$I^2t$	$I^2t$ for fusing coordination	$V_R=0.6V_{RRM}$					2645	$A^2s \cdot 10^3$
$V_{FO}$	Threshold voltage			160			0.83	V
$r_F$	Forward slope resistance						0.16	mΩ
$V_{FM}$	Peak forward voltage	$I_{FM}=4500A, F=24kN$		160			1.55	V
$Q_{rr}$	Recovery charge	$I_{FM}=2000A, t_p=2000\mu s, di/dt=-20A/\mu s, V_R=50V$		160		3500		μC
$R_{th(j-c)}$	Thermal resistance Junction to case	At 180° sine double side cooled Clamping force 24kN					0.020	°C /W
$R_{th(c-h)}$	Thermal resistance case to heat sink					0.005		
$F_m$	Mounting force				19		26	kN
$T_{stg}$	Stored temperature				-40		160	°C
$W_t$	Weight					440		g
Outline								

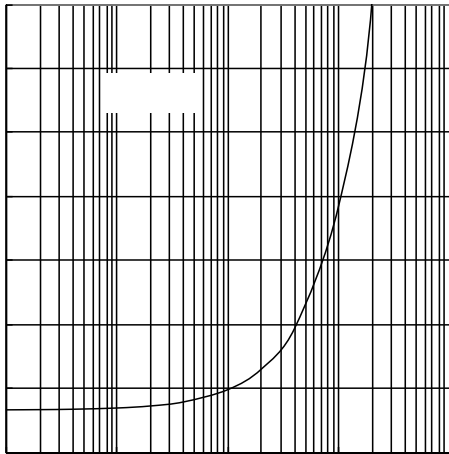


Fig.1

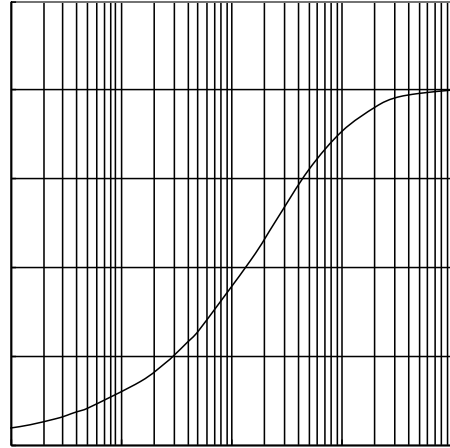


Fig.2

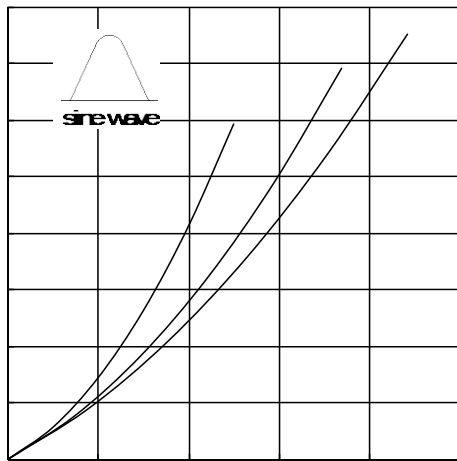


Fig.3

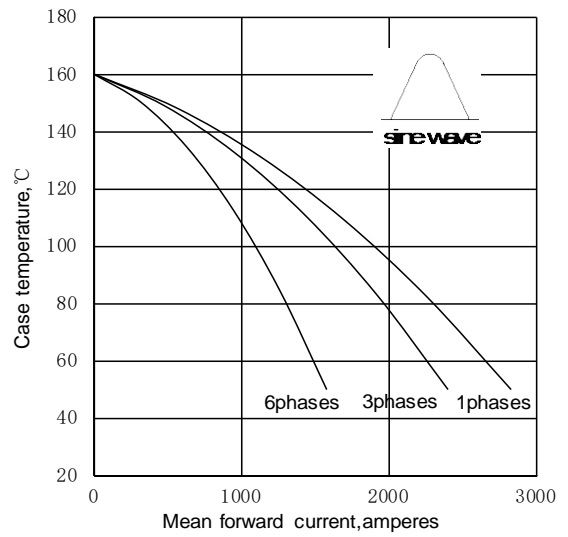


Fig.4

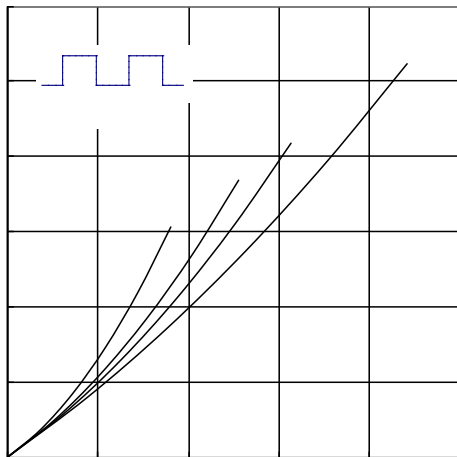


Fig.5

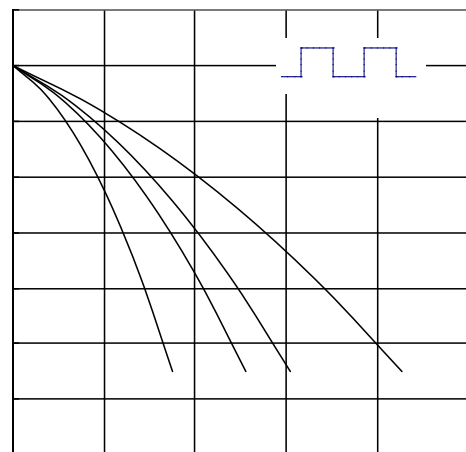


Fig.6

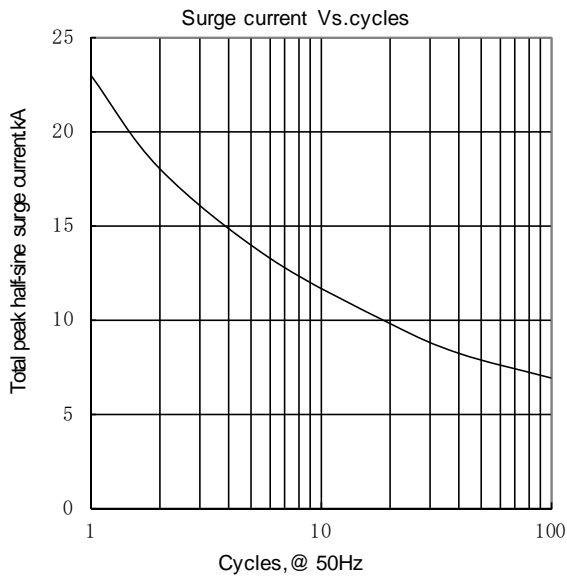


Fig.7

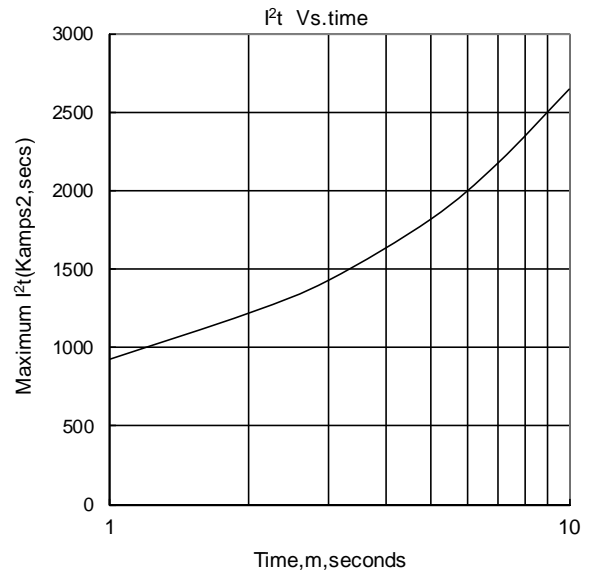


Fig.8

**Outline:**

