

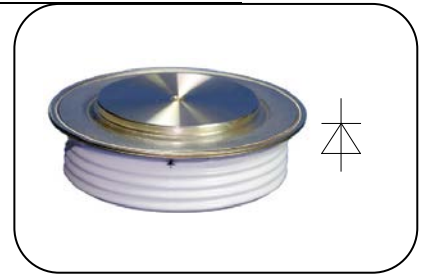
Features

- 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

$I_{F(AV)}$ **1600 A**
 V_{RRM} **2100~3000 V**
 I_{FSM} **32 kA**
 I^2t **5120 10³A²S**



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,	$T_c=85^{\circ}C$	150			1600	A
V_{RRM}	Repetitive peak reverse voltage	$t_p=10ms$		150	2100		3000	V
I_{RRM}	Repetitive peak current	at V_{RRM}		150			80	mA
I_{FSM}	Surge forward current	10ms half sine wave		150			32	kA
I^2t	I^2t for fusing coordination	$V_R=0.6V_{RRM}$					5120	A ² s*10 ³
V_{FO}	Threshold voltage			150			0.78	V
r_F	Forward slope resistance						0.20	mΩ
V_{FM}	Peak forward voltage	$I_{FM}=5000A, F=24kHz$		25			1.60	V
Q_{rr}	Recovery charge	$I_{FM}=2000A, t_p=2000\mu s, di/dt=-20A/\mu s, V_R=50V$		150		3500		μC
$R_{th(j-c)}$	Thermal resistance Junction to case	At 180° sine double side cooled Clamping force 24kN					0.019	°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		150	°C
W_t	Weight					380		g
Outline								

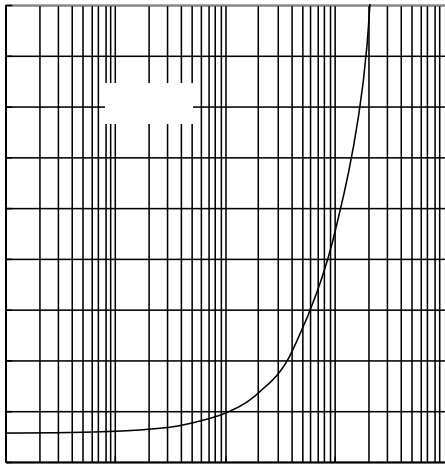


Fig.1

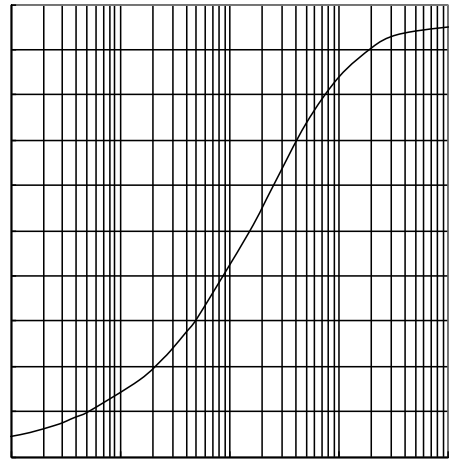


Fig.2

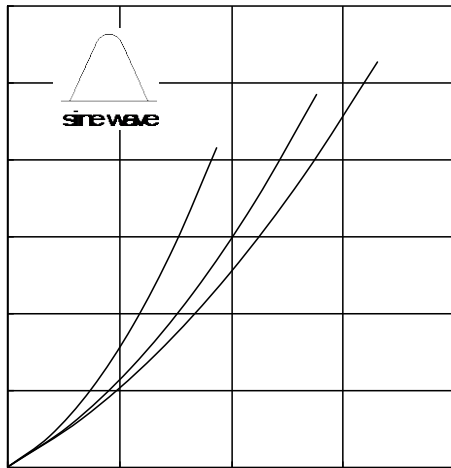


Fig.3

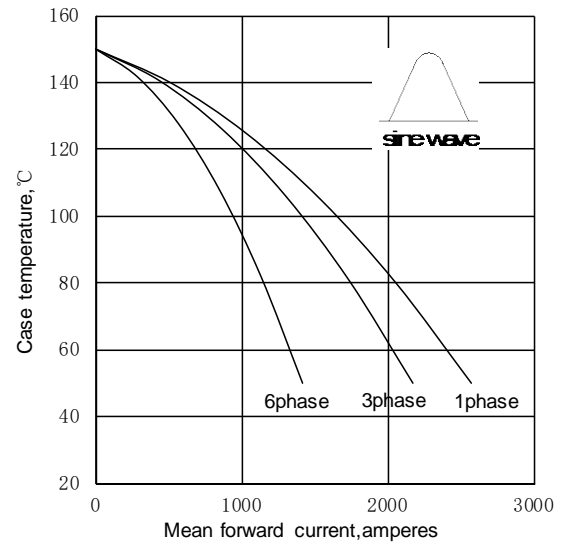


Fig.4

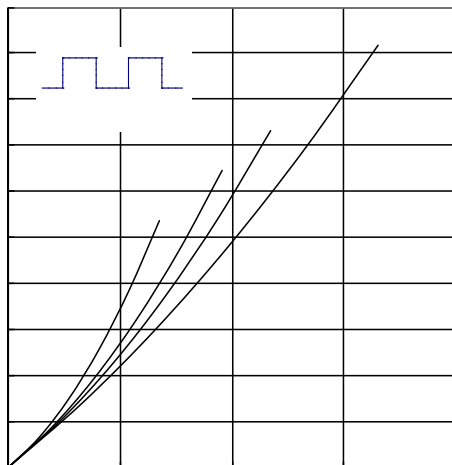


Fig.5

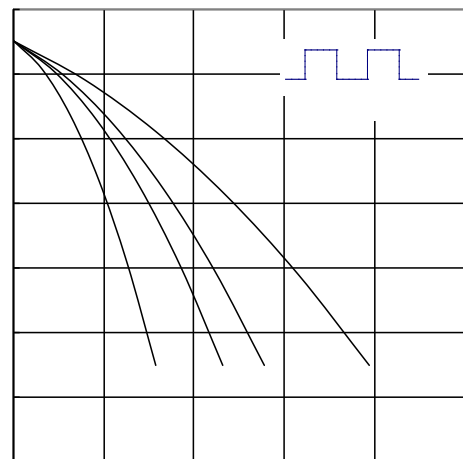


Fig.6

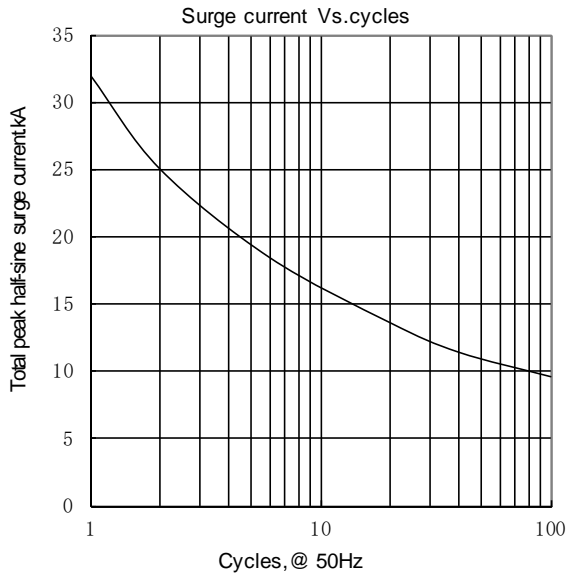


Fig.7

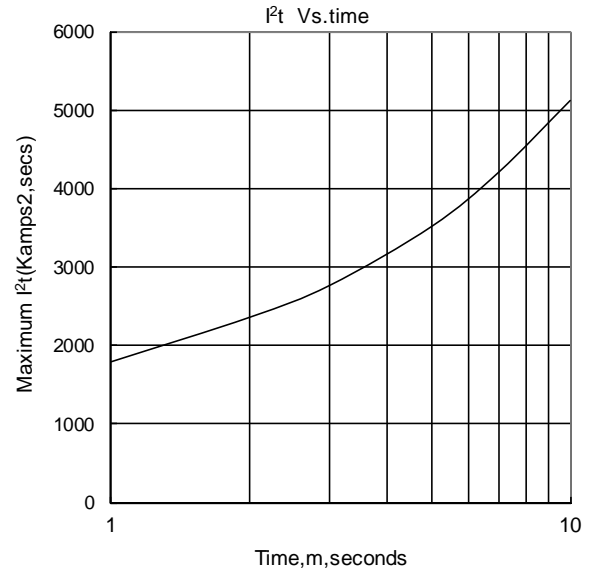


Fig.8

Outline:

