

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

$I_{F(AV)}$ **1510 A**
 V_{RRM} **5600~6500 V**
 I_{FSM} **26 kA**
 I^2t **3380 10³A²S**



SYMBOL	CHARACTERISTIC	TEST CONDITIONS		$T_j(^{\circ}\text{C})$	VALUE			UNIT
					Min	Type	Max	
$I_{F(AV)}$	Mean forward current	180° half sine wave 50Hz Double side cooled,	$T_C=100^{\circ}\text{C}$	150			1510	A
V_{RRM}	Repetitive peak reverse voltage	$t_p=10\text{ms}$		150	5600		6500	V
I_{RRM}	Repetitive peak current	At V_{RRM}		150			200	mA
I_{FSM}	Surge forward current	10ms half sine wave		150			26	kA
I^2t	I^2t for fusing coordination	$V_R=0.6V_{RRM}$					3380	$\text{A}^2\text{s} \cdot 10^3$
V_{FO}	Threshold voltage			150			0.92	V
r_F	Forward slope resistance						0.39	mΩ
V_{FM}	Peak forward voltage	$I_{FM}=3000\text{A}, F=34\text{kN}$		150			1.85	V
Q_{rr}	Recovery charge	$I_{FM}=2000\text{A}, t_p=2000\mu\text{s}, di/dt=-5\text{A}/\mu\text{s}, V_R=50\text{V}$		150		5000		μC
$R_{th(j-c)}$	Thermal resistance Junction to case	At 180° sine double side cooled Clamping force 34kN					0.014	$^{\circ}\text{C}/\text{W}$
$R_{th(c-h)}$	Thermal resistance case to heatsink					0.0035		
F_m	Mounting force				27		34	kN
T_{stg}	Stored temperature				-40		160	$^{\circ}\text{C}$
W_t	Weight					1100		g
Outline								

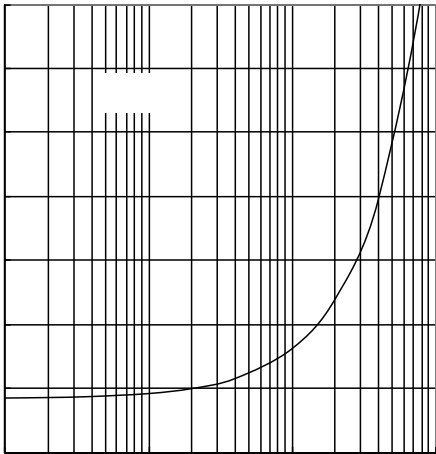


Fig.1

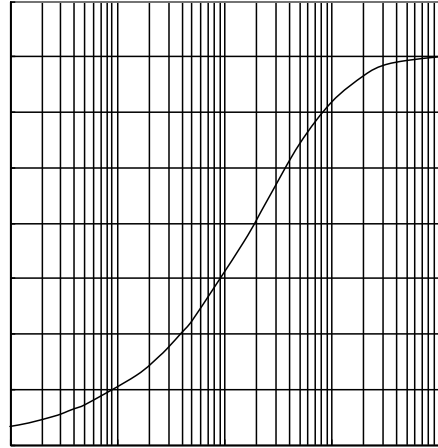


Fig.2

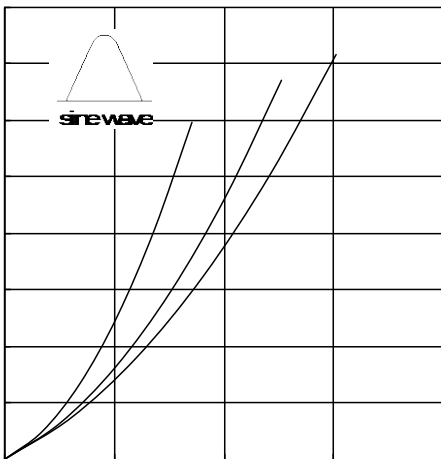


Fig.3

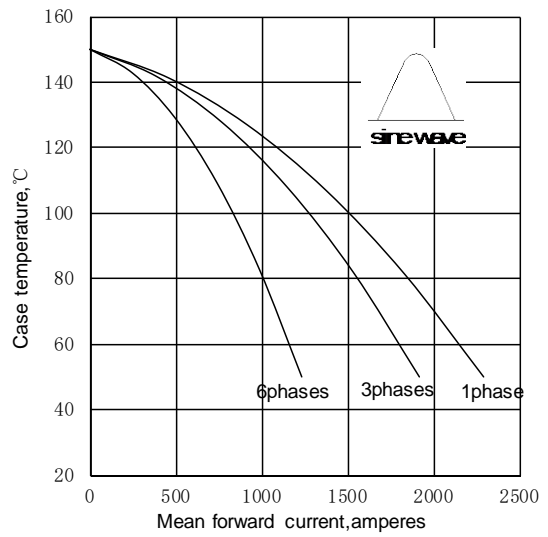


Fig.4

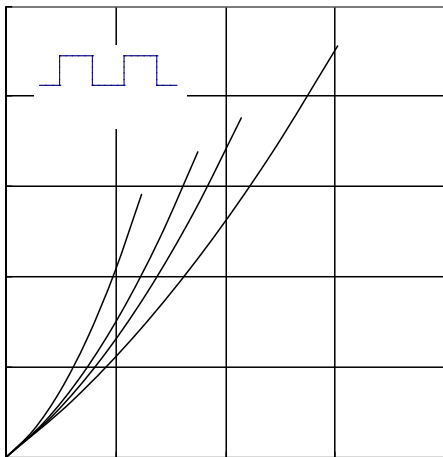


Fig.5

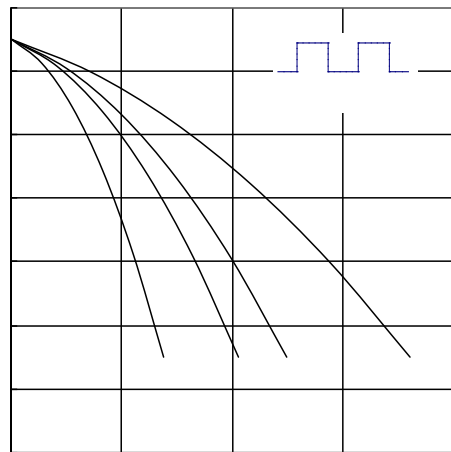


Fig.6

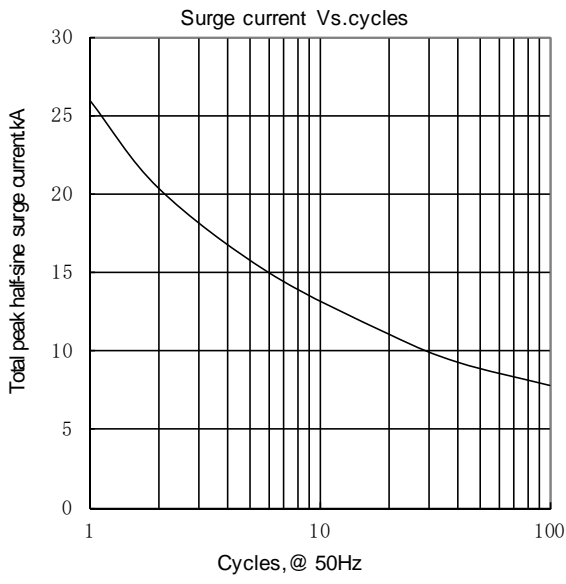


Fig.7

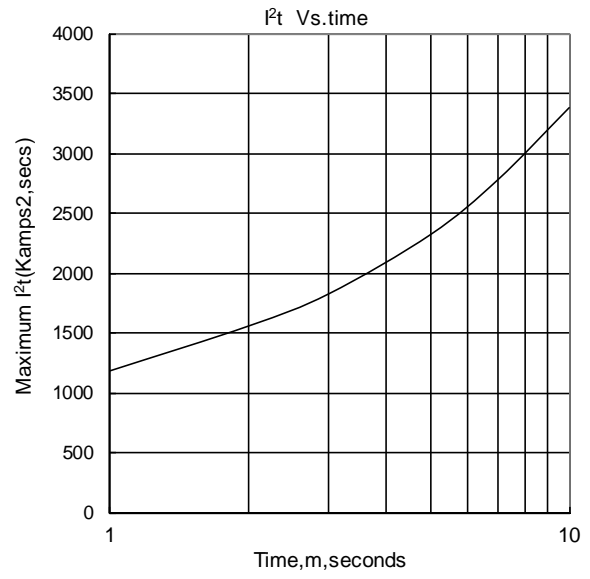


Fig.8

Outline:

