

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

$I_{F(AV)}$ 560 A
 V_{RRM} 1100~2000 V
 I_{FSM} 4.9 kA
 I^2t 120 $10^3 A^2S$



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,	$T_C=85^{\circ}C$	175			560	A
V_{RRM}	Repetitive peak reverse voltage	$V_{RRM} \text{ tp}=10\text{ms}$ $V_{RSM}=V_{RRM}+100V$		175	1100		2000	V
I_{RRM}	Repetitive peak current	at V_{RRM}		175			16	mA
I_{FSM}	Surge forward current	10ms half sine wave		175			4.9	kA
I^2t	I^2t for fusing coordination	$V_R=0.6V_{RRM}$						120
V_{FO}	Threshold voltage			175			0.8	V
r_F	Forward slope resistance							0.86
V_{FM}	Peak forward voltage	$I_{FM}=1500A, F=5kN$		175			2.10	V
Q_{rr}	Recovery charge	$I_{FM}=1000A, \text{tp}=2000\mu s, di/dt=-20A/\mu s,$ $V_R=50V$		175		1400		μC
$R_{th(j-c)}$	Thermal resistance Junction to case	At 180° sine double side cooled Clamping force 5.0kN					0.080	$^{\circ}C/W$
$R_{th(c-h)}$	Thermal resistance case to heat sink						0.020	
F_m	Mounting force				3.3		5.5	kN
T_{stg}	Stored temperature				-40		175	$^{\circ}C$
W_t	Weight					60		g
Outline								

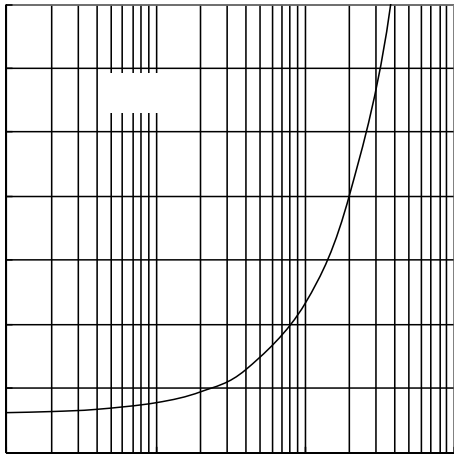


Fig.1

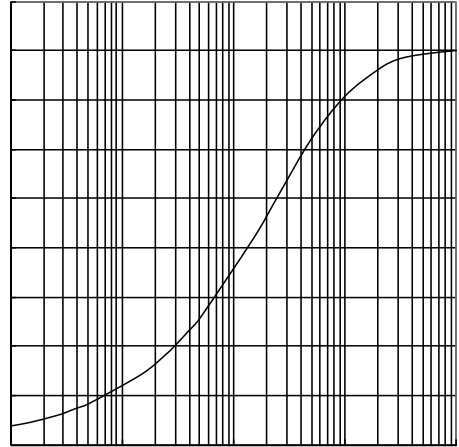


Fig.2

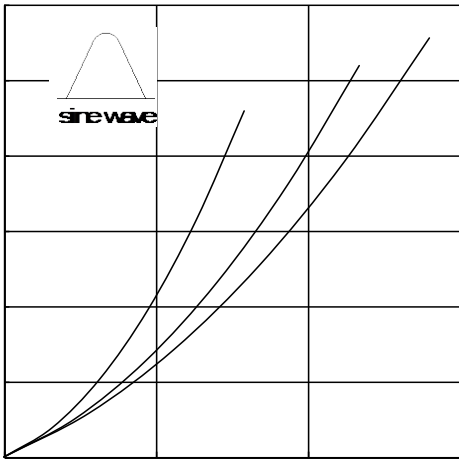


Fig.3

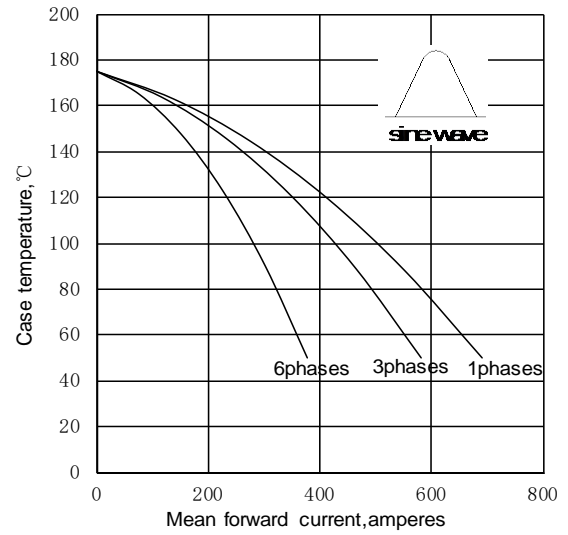


Fig.4

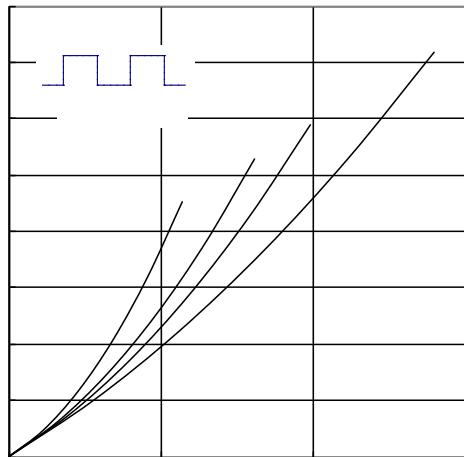


Fig.5

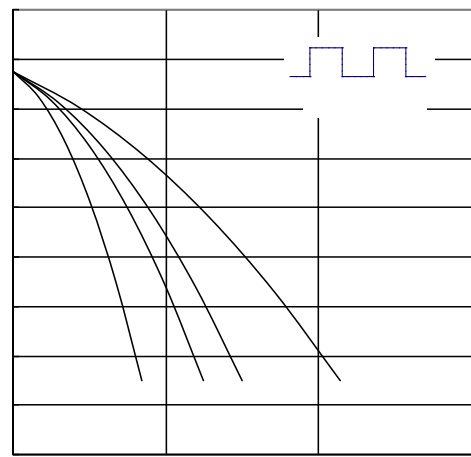


Fig.6

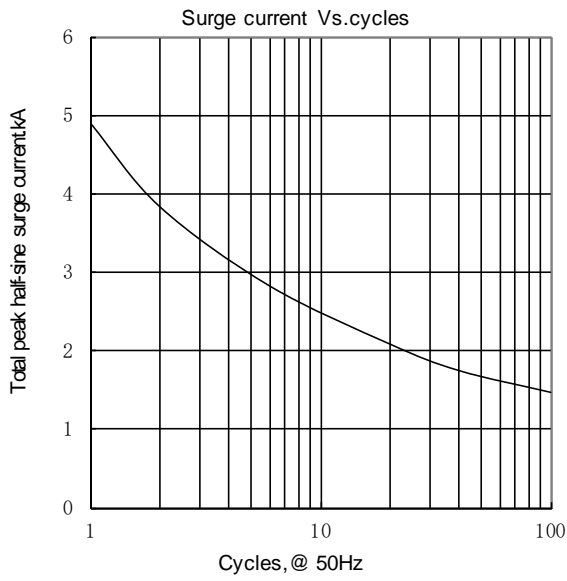


Fig.7

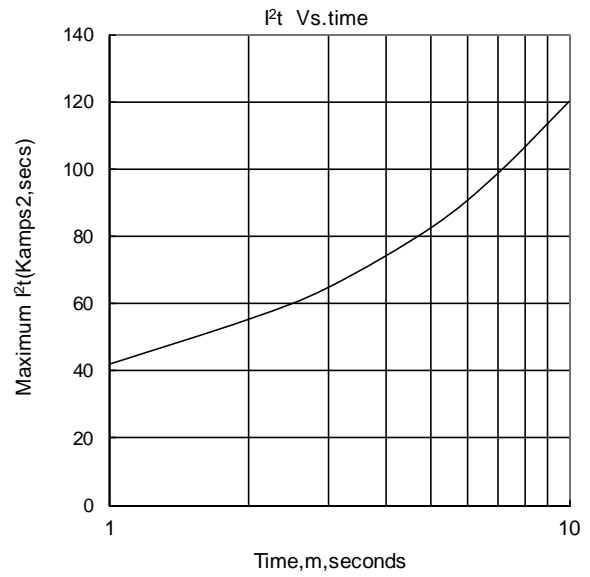


Fig.8

Outline:

