

**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

**$I_{F(AV)}$       1080A**  
 **$V_{RRM}$         1100~2000 V**  
 **$I_{FSM}$          9     kA**  
 **$I^2t$             405    $10^3A^2S$**



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			1080	A
$V_{RRM}$	Repetitive peak reverse voltage	tp=10ms		175	1100		2000	V
$I_{RRM}$	Repetitive peak current	at $V_{RRM}$		175			30	mA
$I_{FSM}$	Surge forward current	10ms half sine wave		175			9	kA
$I^2t$	$I^2t$ for fusing coordination	$V_R=0.6V_{RRM}$					405	$A^2s \cdot 10^3$
$V_{FO}$	Threshold voltage			175			0.98	V
$r_F$	Forward slope resistance						0.33	mΩ
$V_{FM}$	Peak forward voltage	$I_{FM}=3770A, F=7.0kN$		175			2.22	V
$Q_{rr}$	Recovery charge	$I_{FM}=2000A, tp=2000\mu s, di/dt=-20A/\mu s, V_R=50V$		175		1600		μC
$R_{th(j-c)}$	Thermal resistance Junction to case	At 180° sine double side cooled Clamping force 7.0kN					0.045	°C/W
$R_{th(c-h)}$	Thermal resistance case to heat sink					0.010		
$F_m$	Mounting force				5.3		10	kN
$T_{stg}$	Stored temperature				-40		175	°C
$W_t$	Weight					80		g
Outline	P33							

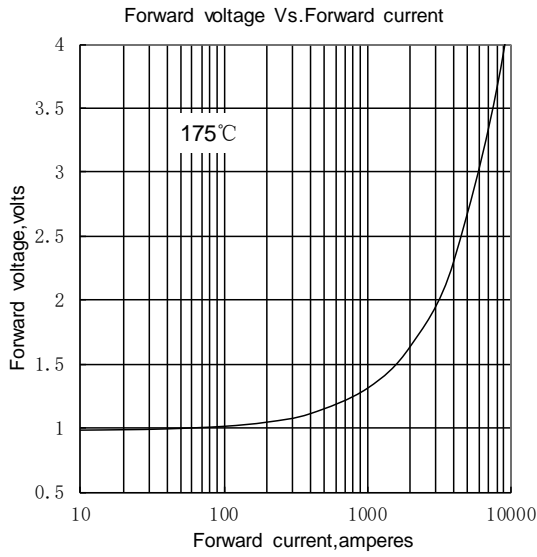


Fig.1

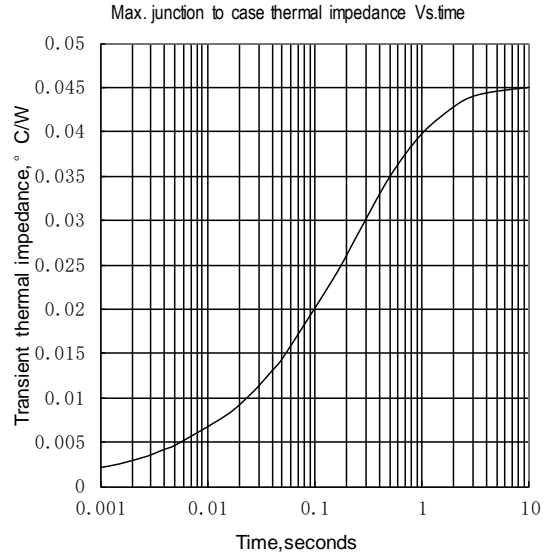


Fig.2

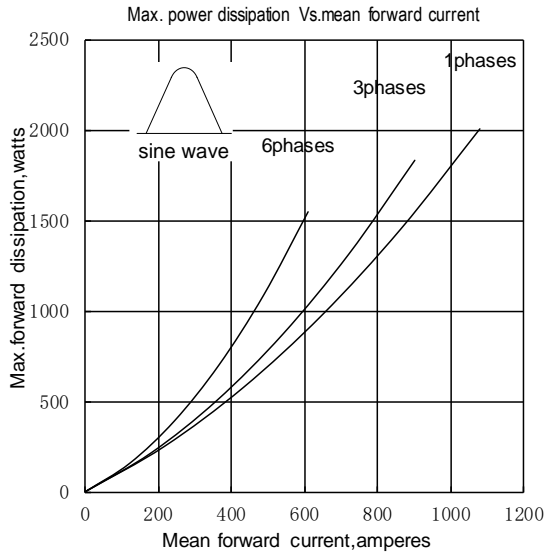


Fig.3

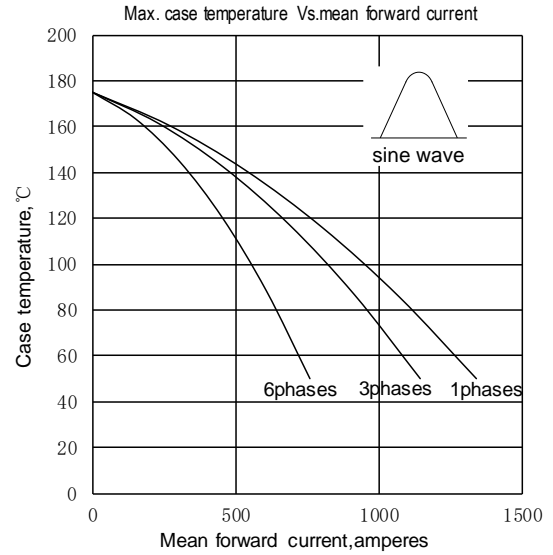


Fig.4

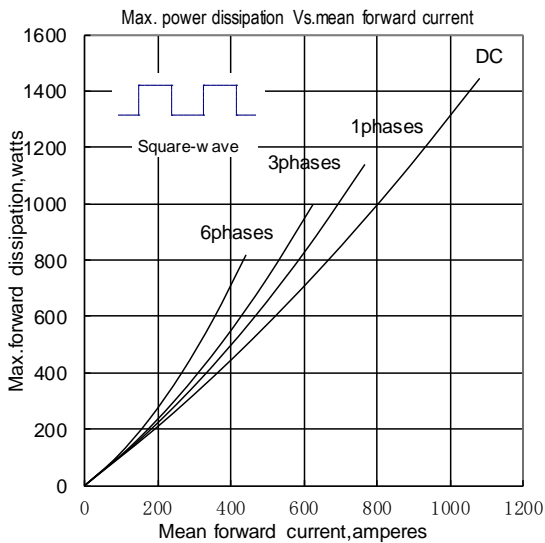


Fig.5

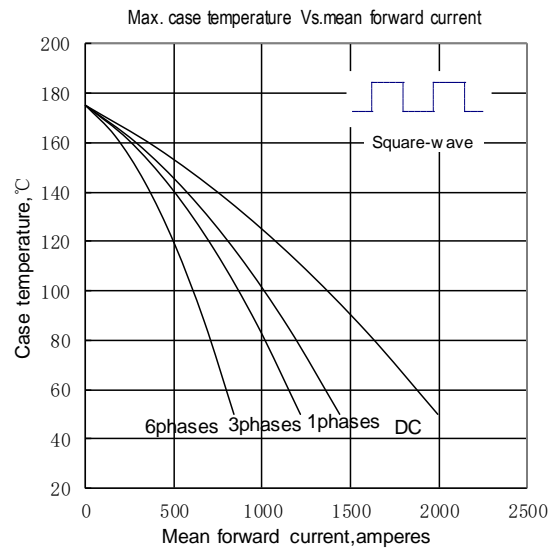


Fig.6

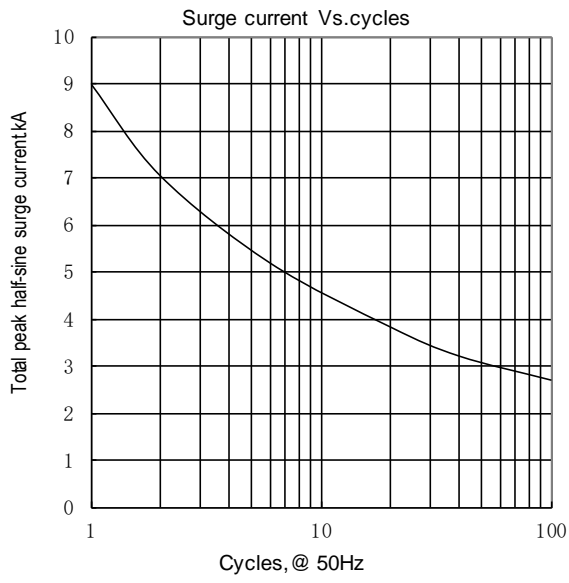


Fig.7

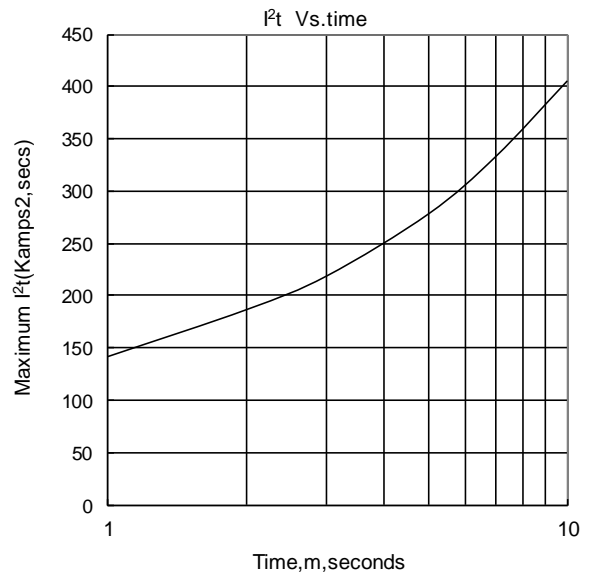


Fig.8

