

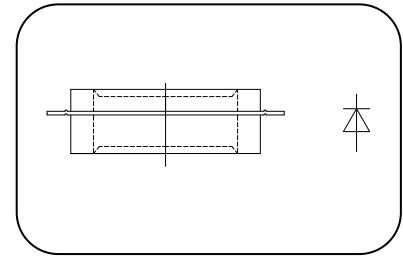
### Features

- 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

$I_{F(AV)}$       **810A**  
 $V_{RRM}$         **1100~2000V**  
 $I_{FSM}$         **4.2 kA**  
 $I^2t$             **88 10<sup>3</sup>A<sup>2</sup>S**



SYMBOL	CHARACTERISTIC	TEST CONDITIONS	T <sub>j</sub> (°C)	VALUE			UNIT
				Min	Type	Max	
$I_{F(AV)}$	Mean forward current	180° half sine wave 50Hz Double side cooled,	150			1060	A
						810	
$V_{RRM}$	Repetitive peak reverse voltage	$V_{RRM}$ tp=10ms $V_{RSM} = V_{RRM} + 100V$	150	1100		2000	V
$I_{RRM}$	Repetitive peak current	$V_{RM} = V_{RRM}$	150			30	mA
$I_{FSM}$	Surge forward current	10ms half sine wave	150			4.2	kA
$I^2t$	$I^2T$ for fusing coordination	$V_R = 0.6V_{RRM}$				88	A <sup>2</sup> s*103
$V_{FO}$	Threshold voltage		150			1.08	V
$r_F$	Forward slop resistance					0.35	mΩ
$V_{FM}$	Peak on-state voltage	$I_{FM} = 900A, F = 9.0kN$	25			1.8	V
$Q_{rr}$	Recovery charge	$I_{FM} = 1000A, tp = 2000\mu s, di/dt = -20A/\mu s, V_R = 50V$	150		1000		μC
$R_{th(j-c)}$	Thermal resistance Junction to case	At 180° sine double side cooled Clamping force 9.0kN				0.045	°C /W
$R_{th(c-h)}$	Thermal resistance case to heat sink					0.015	
$F_m$	Mounting force			5.3		10	kN
$T_{stg}$	Stored temperature			-40		160	°C
$W_t$	Weight				85		g
Outline	KA28						

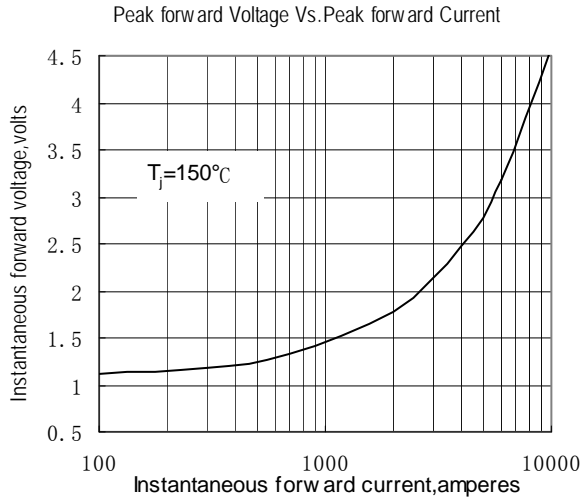


Fig.1

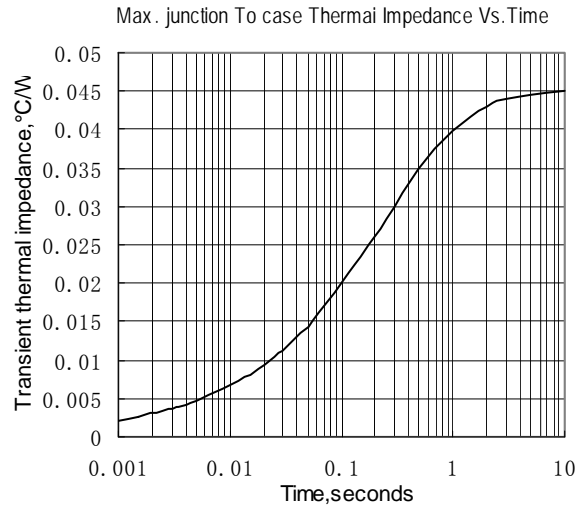


Fig.2

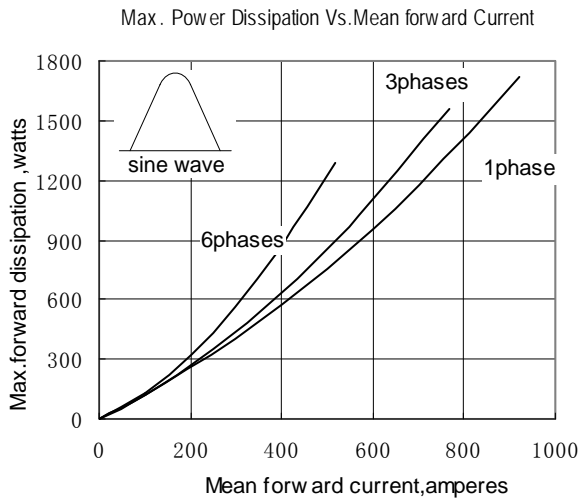


Fig.3

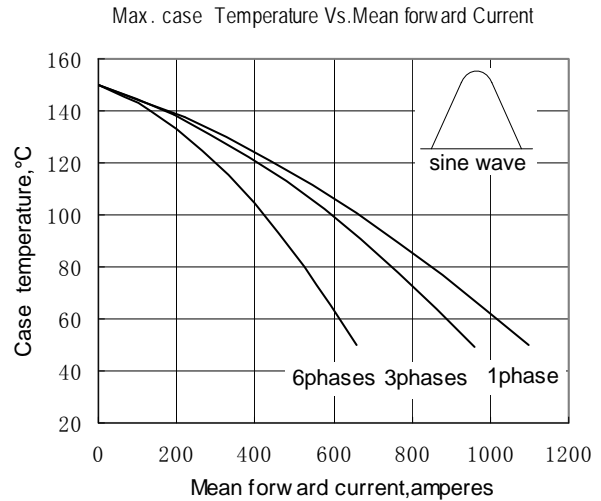


Fig.4

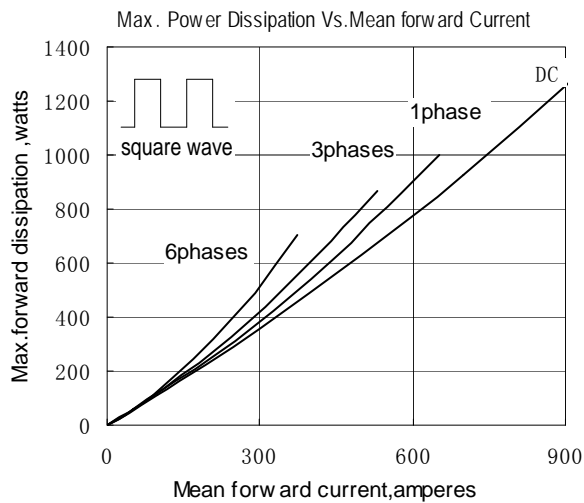


Fig.5

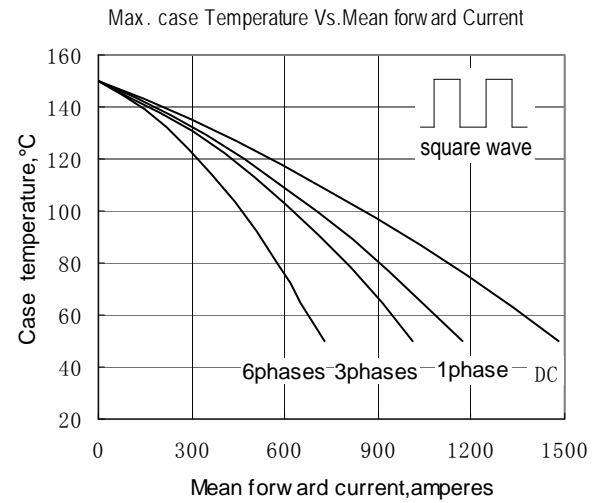


Fig.6

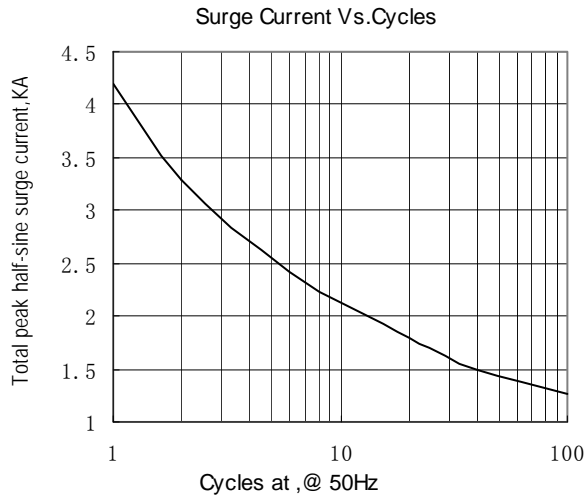


Fig.7

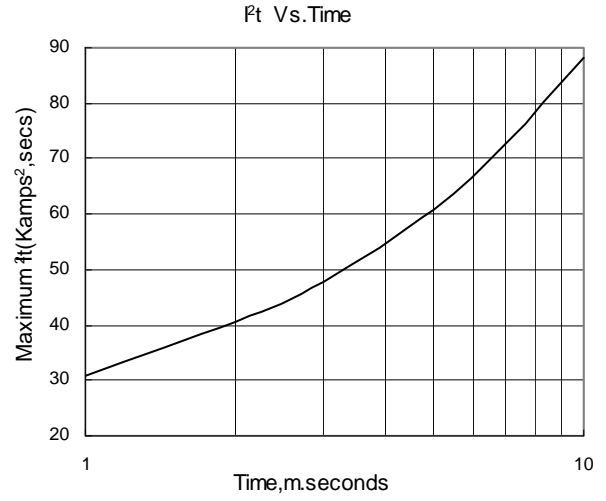


Fig.8

Outline:

