

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

$I_{F(AV)}$	4520 A
V_{RRM}	1100~2000 V
I_{FSM}	44 kA
I^2t	9680 $10^3 A^2S$



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			4520	A
V_{RRM}	Repetitive peak reverse voltage	$t_p=10ms$	175	1100		2000	V
I_{RRM}	Repetitive peak current	at V_{RRM}	175			160	mA
I_{FSM}	Surge forward current	10ms half sine wave	175			44	kA
I^2t	I^2t for fusing coordination	$V_R=0.6V_{RRM}$					9680
V_{FO}	Threshold voltage		175			0.85	V
r_F	Forward slope resistance						0.073
V_{FM}	Peak forward voltage	$I_{FM}=4000A, F=35kN$	25			2.0	V
Q_{rr}	Recovery charge	$I_{FM}=2000A, t_p=2000\mu s, di/dt=-20A/\mu s, V_R=50V$	175		5000		μC
$R_{th(j-c)}$	Thermal resistance Junction to case	At 180° sine double side cooled Clamping force 35kN				0.012	$^{\circ}C / W$
$R_{th(c-h)}$	Thermal resistance case to heat sink					0.003	
F_m	Mounting force			30		40	kN
T_{stg}	Stored temperature			-40		175	$^{\circ}C$
W_t	Weight				880		g
Outline	ZT60cT70						

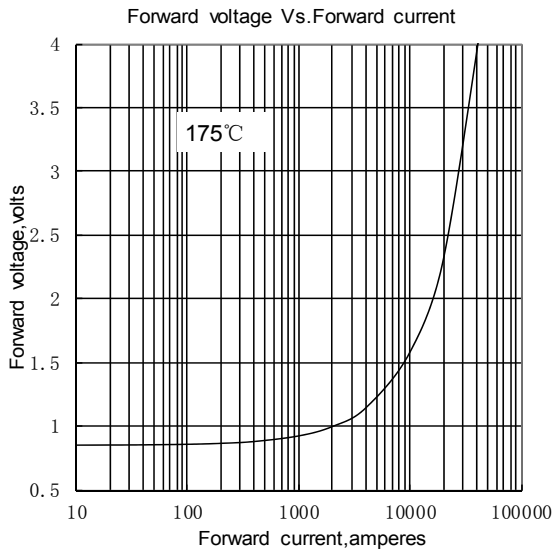


Fig.1

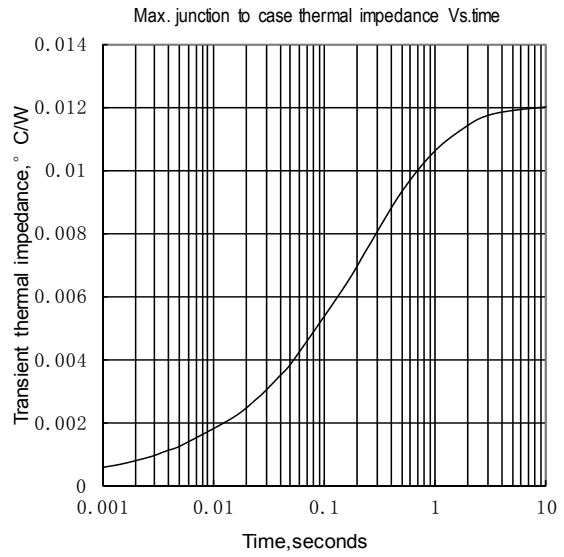


Fig.2

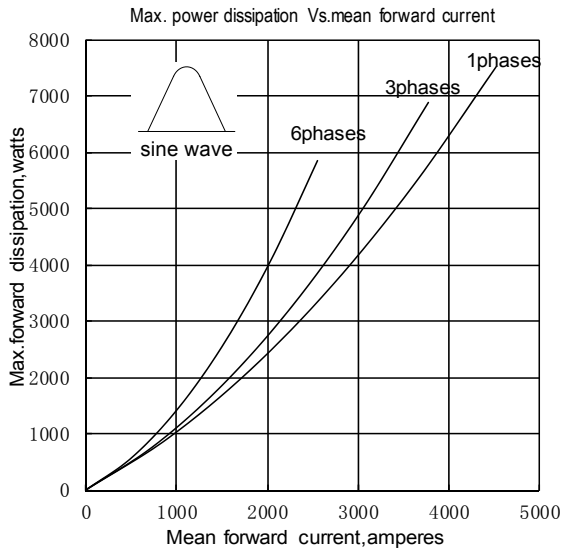


Fig.3

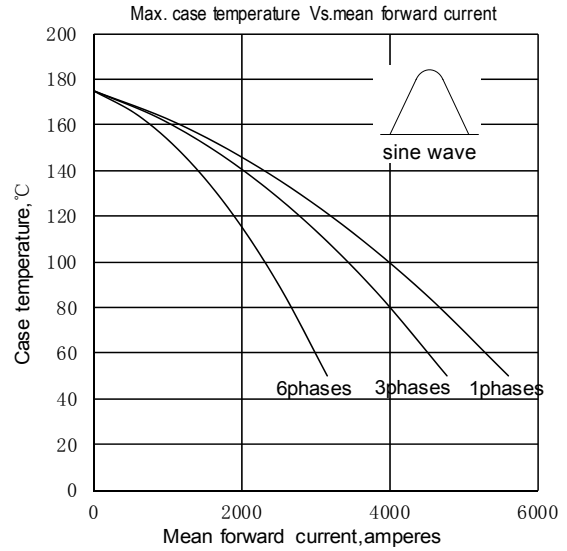


Fig.4

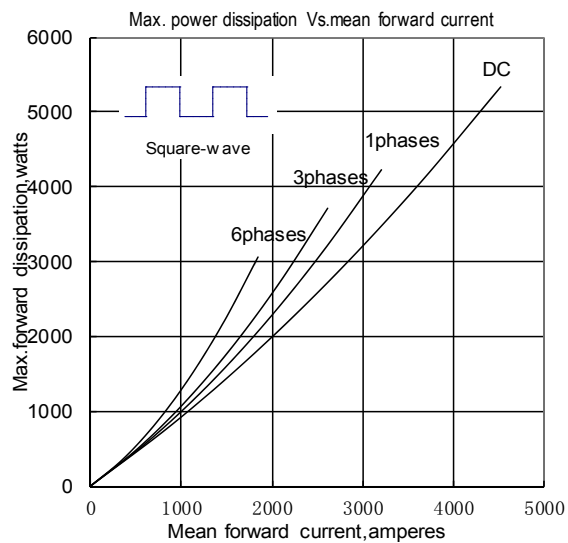


Fig.5

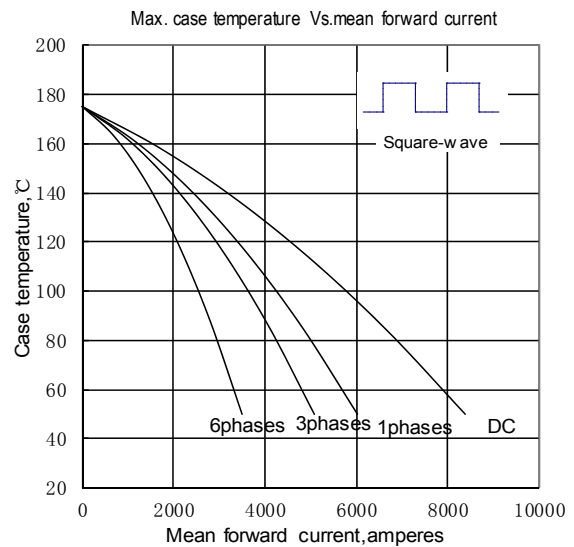


Fig.6

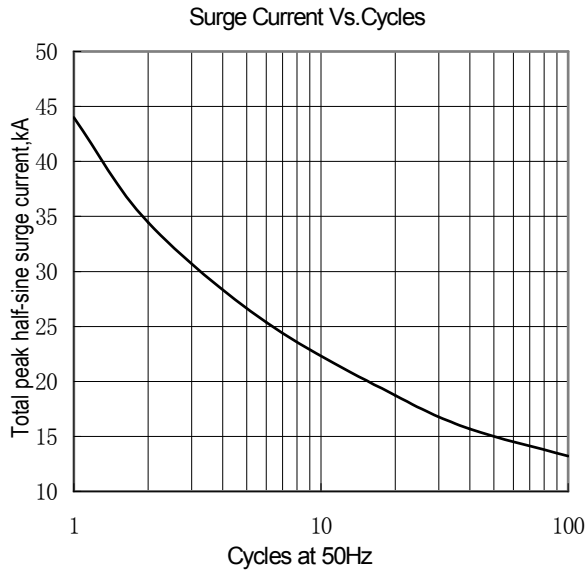


Fig.7

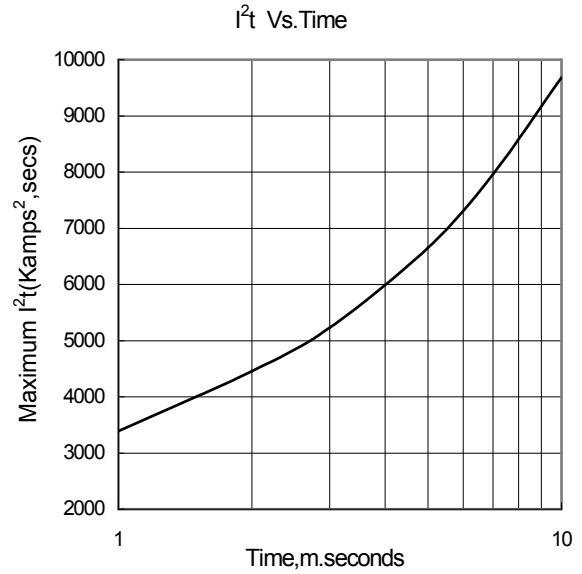


Fig.8

Outline:

