

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

$I_{F(AV)}$ **3470 A**
 V_{RRM} **2100~3000 V**
 I_{FSM} **35 kA**
 I^2t **6125 10³A²S**



SYMBOL	CHARACTERISTIC	TEST CONDITIONS		T _j (°C)	VALUE			UNIT
					Min	Type	Max	
$I_{F(AV)}$	Mean forward current	180° half sine wave 50Hz Double side cooled,	T _c =85°C	160			3470	A
V_{RRM}	Repetitive peak reverse voltage	tp=10ms		160	2100		3000	V
I_{RRM}	Repetitive peak current	At V _{RRM}		160			160	mA
I_{FSM}	Surge forward current	10ms half sine wave V _R =0.6V _{RRM}		160			35	kA
I^2t	I ² t for fusing coordination						6125	A ² s*10 ³
V_{FO}	Threshold voltage			160			0.95	V
r_F	Forward slope resistance						0.10	mΩ
V_{FM}	Peak forward voltage	I _{FM} =5000A, F=40kN		25			2.00	V
Q_{rr}	Recovery charge	I _{FM} =2000A, tp=2000μs, di/dt=-20A/μs, V _R =50V		160		5500		μC
$R_{th(j-c)}$	Thermal resistance Junction to case	At 180° sine double side cooled Clamping force 40kN					0.012	°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		160	°C
W_t	Weight					880		g
Outline	ZT60cT70							

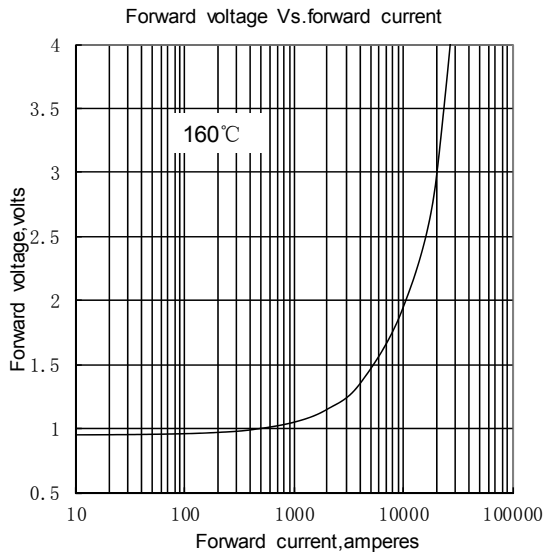


Fig. 1

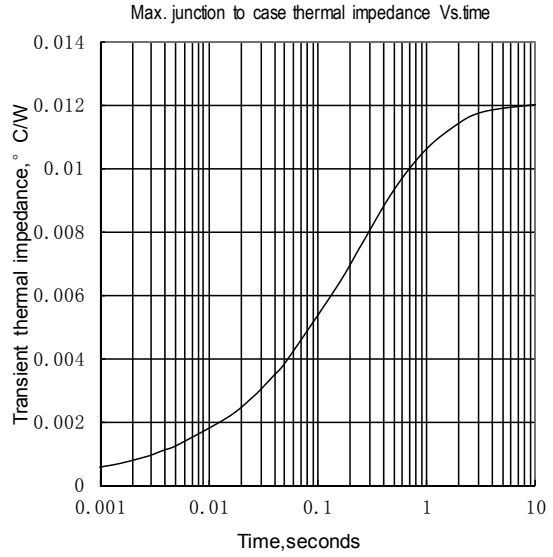


Fig. 2

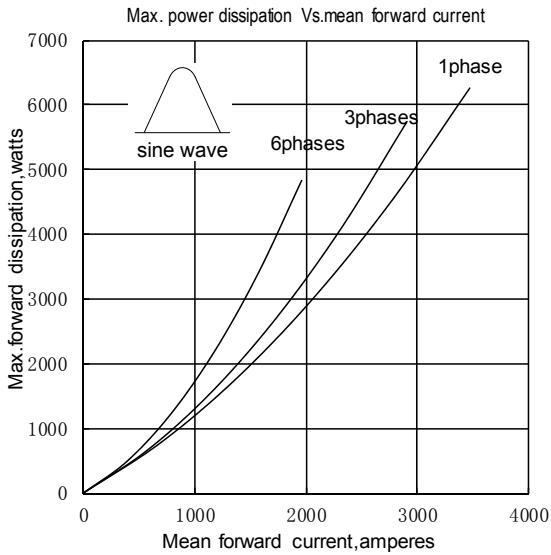


Fig. 3

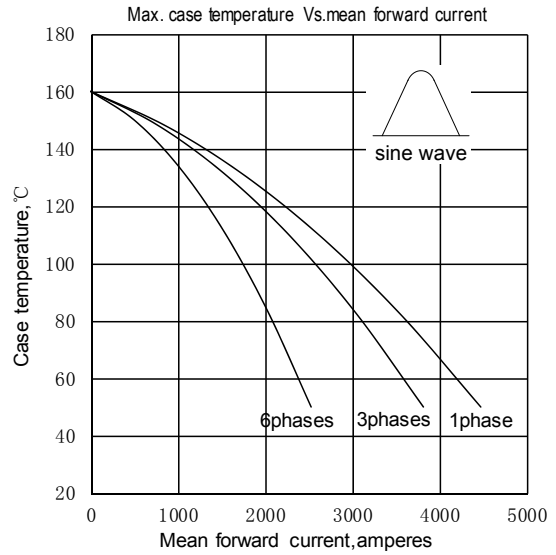


Fig. 4

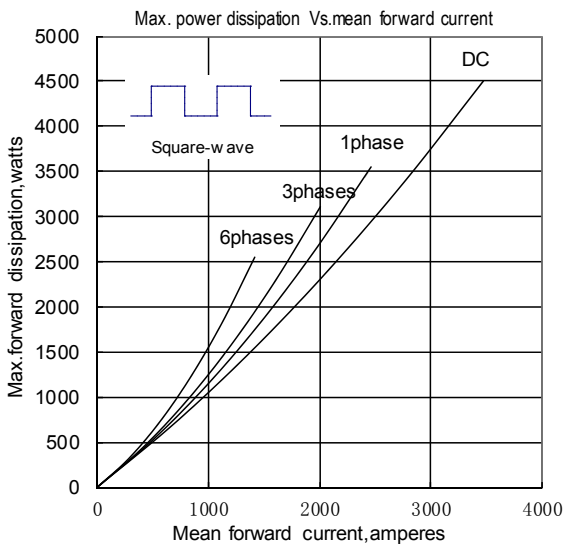


Fig. 5

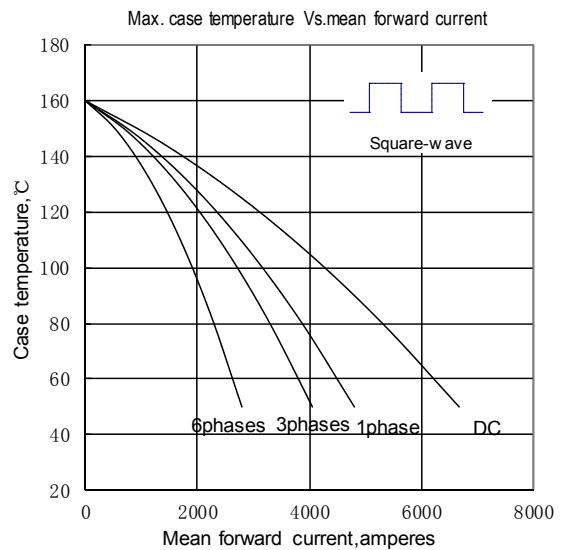


Fig. 6

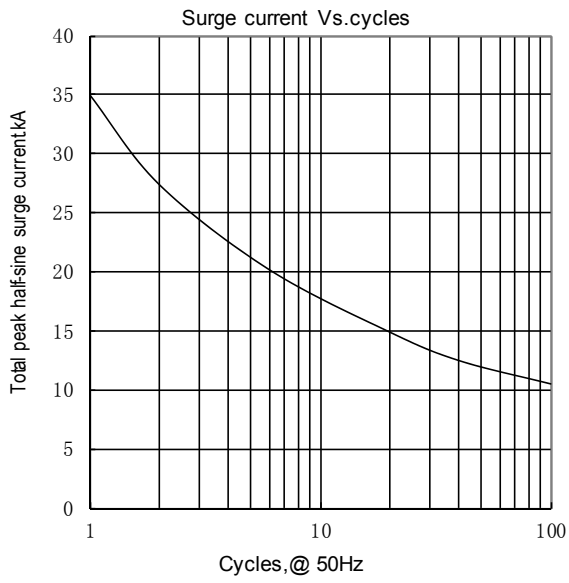


Fig.7

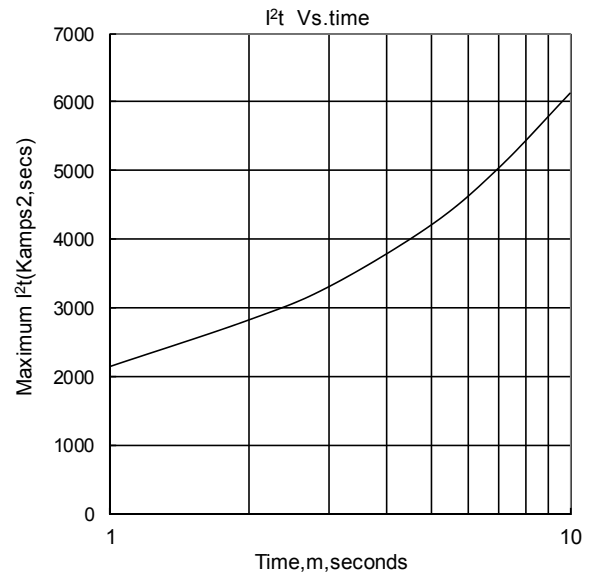


Fig.8

Outline:

