

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

$I_{F(AV)}$	7600 A
V_{RRM}	200~1000 V
I_{FSM}	72 kA
I^2t	25920 $10^3 A^2S$



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,	$T_c=85^{\circ}C$	190			7600	A
V_{RRM}	Repetitive peak reverse voltage	tp=10ms		190	200		1000	V
I_{RRM}	Repetitive peak current	at V_{RRM}		190			100	mA
I_{FSM}	Surge forward current	10ms half sine wave		190			72	kA
I^2t	I^2t for fusing coordination	$V_R=0.6V_{RRM}$					25920	$A^2s \cdot 10^3$
V_{FO}	Threshold voltage			190			0.67	V
r_F	Forward slope resistance						0.038	mΩ
V_{FM}	Peak on-state voltage	$I_{FM}=5000A, F=40kN$		25			1.24	V
Q_{rr}	Recovery charge	$I_{FM}=2000A, tp=2000\mu s, di/dt=-20A/\mu s, V_R=50V$		190		5000		μC
$R_{th(j-c)}$	Thermal resistance Junction to case	At 180° sine double side cooled Clamping force 40kN					0.010	°C /W
$R_{th(c-h)}$	Thermal resistance case to heat sink					0.003		
F_m	Mounting force				35		47	kN
T_{stg}	Stored temperature				-40		190	°C
W_t	Weight					1100		g
Outline	ZT73cT							

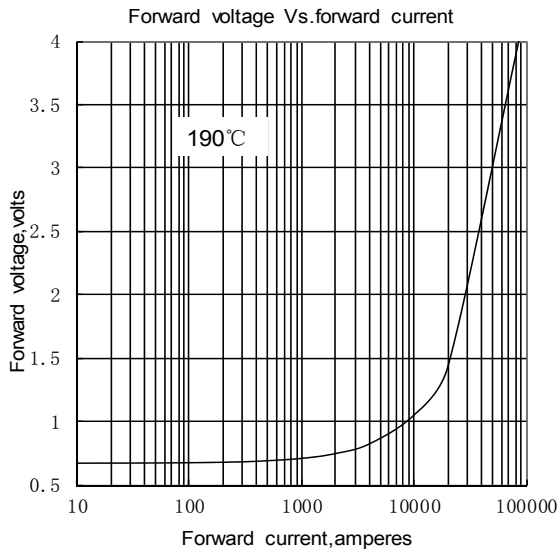


Fig.1

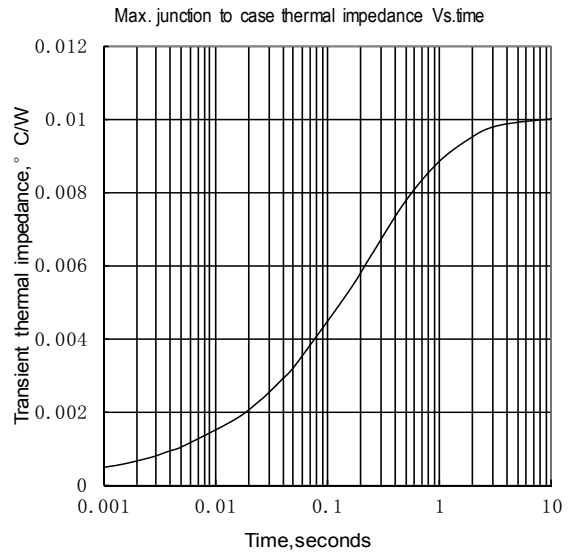


Fig.2

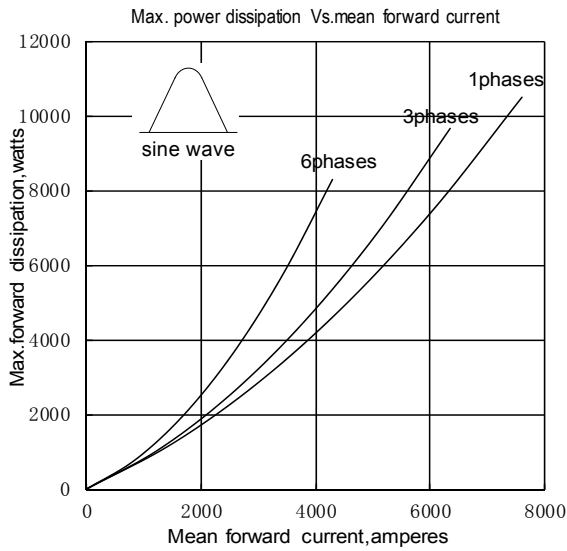


Fig.3

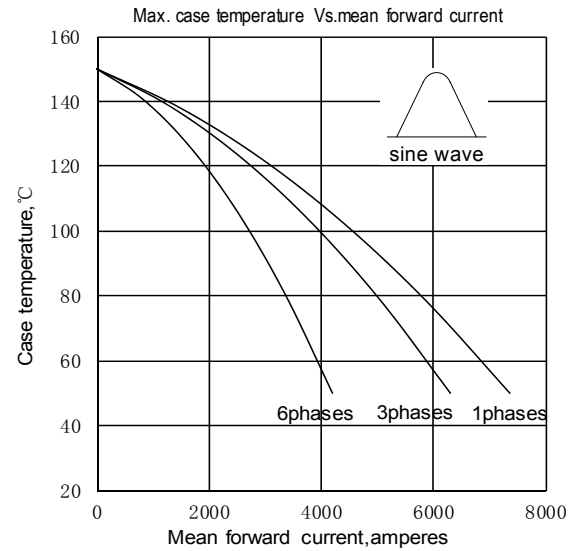


Fig.4

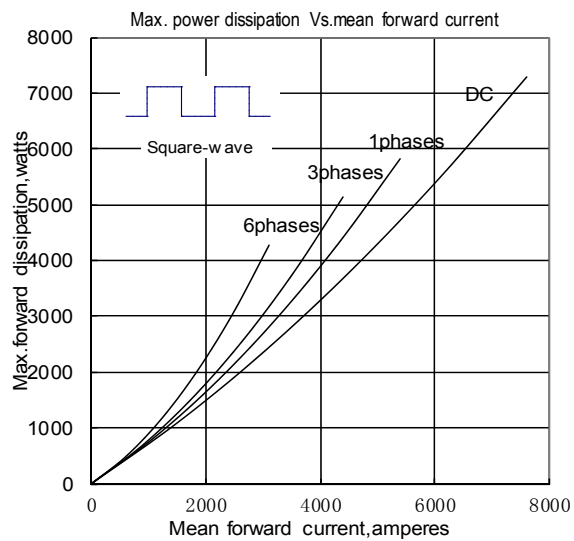


Fig.5

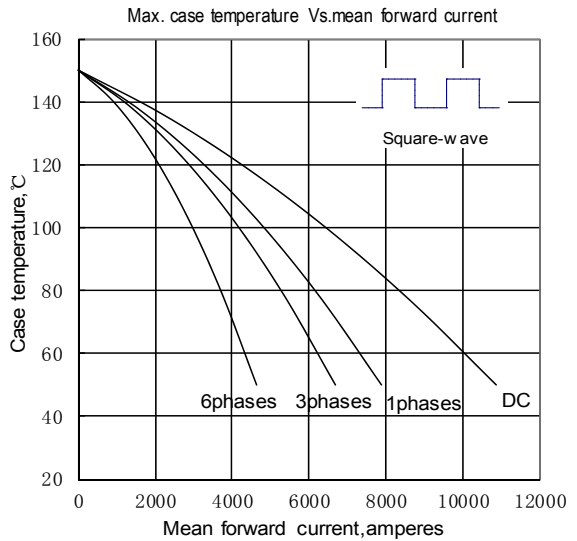


Fig.6

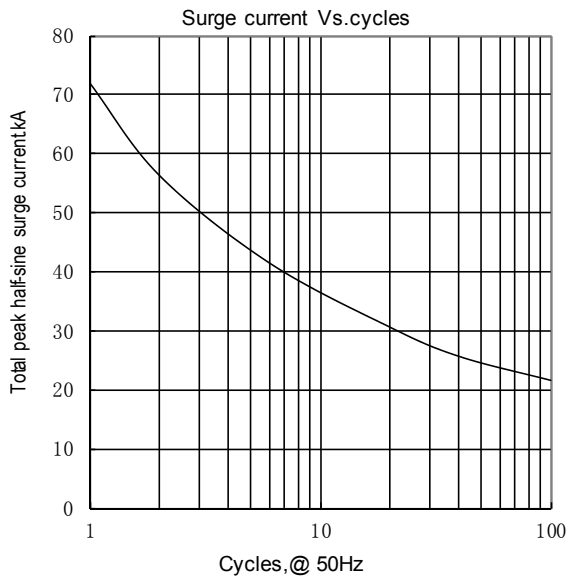


Fig.7

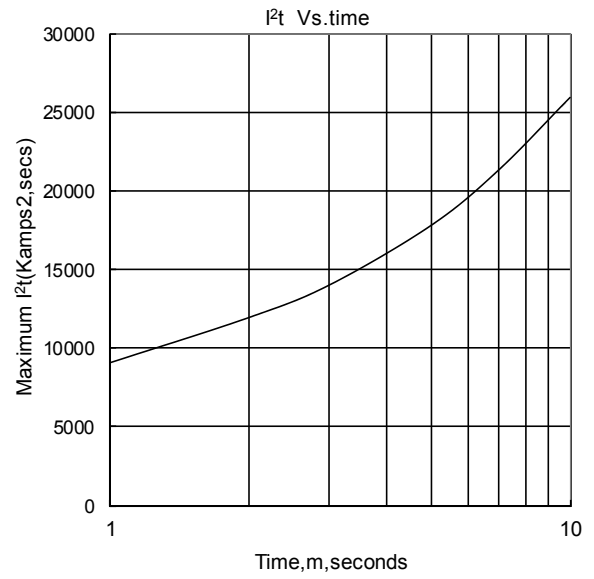


Fig.8

Outline:

