

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

$I_{F(AV)}$	1770 A
V_{RRM}	3100~3800 V
I_{FSM}	18 kA
I^2t	1620 $10^3 A^2S$



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,	160			2200	A
						1770	
V_{RRM}	Repetitive peak reverse voltage	V_{RRM} tp=10ms $V_{RSM} = V_{RRM} + 100V$	160	3100		3800	V
I_{RRM}	Repetitive peak current	$V_{RM} = V_{RRM}$	160			80	mA
I_{FSM}	Surge forward current	10ms half sine wave	160			18	kA
I^2t	I^2T for fusing coordination	$V_R = 0.6V_{RRM}$				1620	$A^2s \cdot 10^3$
V_{FO}	Threshold voltage		160			0.98	V
r_F	Forward slop resistance					0.26	mΩ
V_{FM}	Peak on-state voltage	$I_{FM} = 3800A, F = 24kN$	160			1.97	V
Q_{rr}	Recovery charge	$I_{FM} = 2000A, tp = 2000\mu s, di/dt = -20A/\mu s, V_R = 50V$	160		3500		μC
$R_{th(j-c)}$	Thermal resistance Junction to case	At 180° sine double side cooled Clamping force 24kN				0.020	°C /W
$R_{th(c-h)}$	Thermal resistance case to heat sink					0.005	
F_m	Mounting force			19		26	kN
T_{stg}	Stored temperature			-40		160	°C
W_t	Weight				440		g
Outline	ZT50cT						

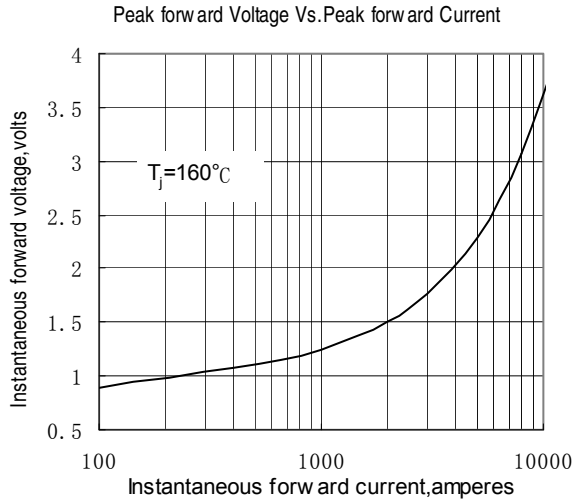


Fig.1

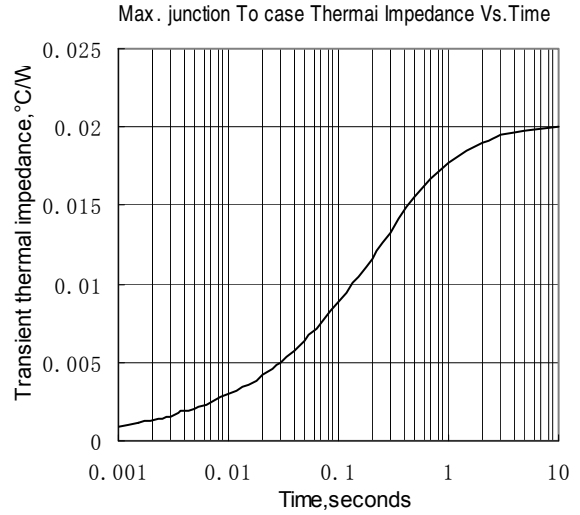


Fig.2

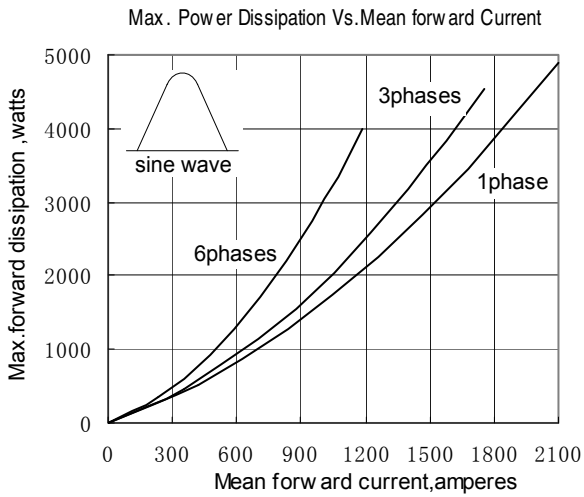


Fig.3

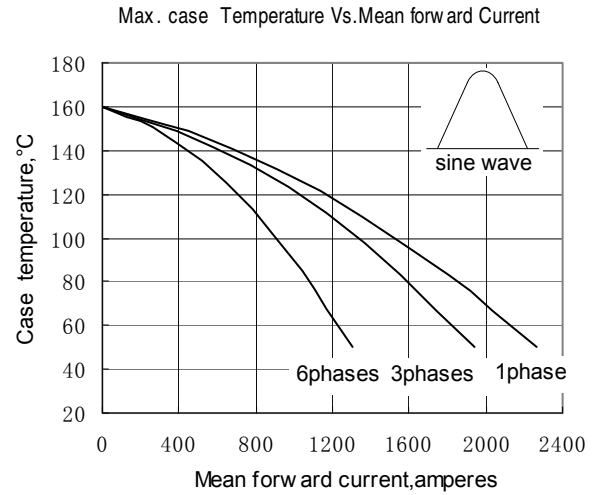


Fig.4

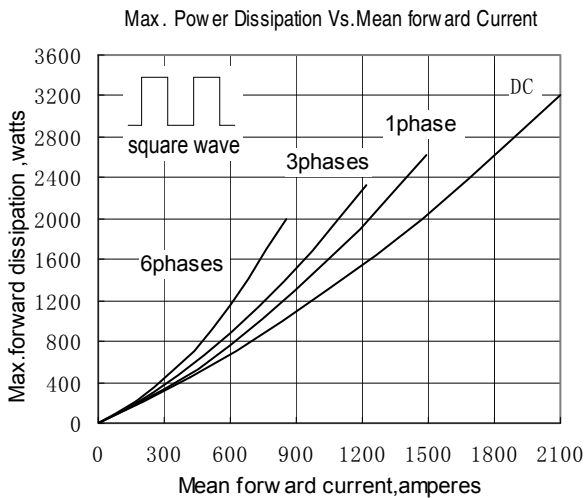


Fig.5

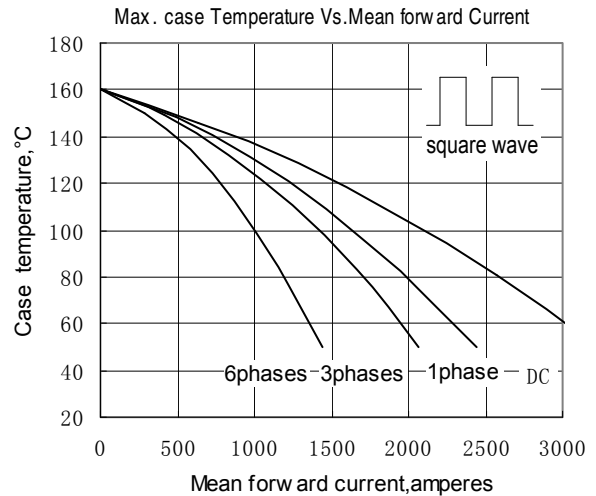


Fig.6

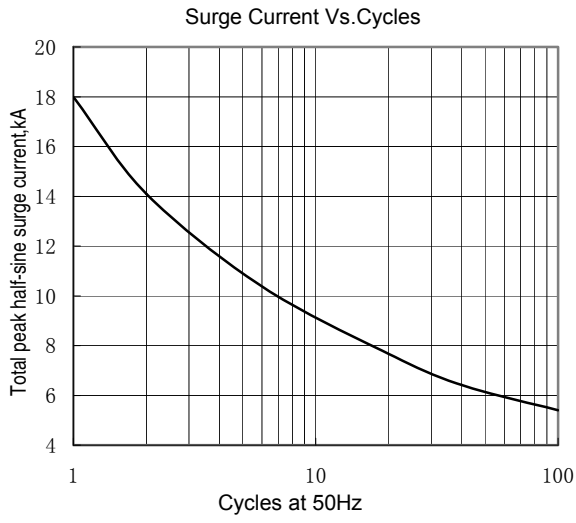


Fig.7

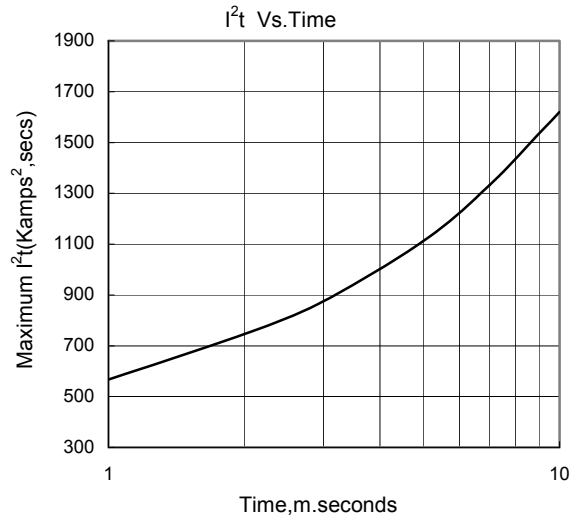


Fig.8

Outline:

