

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}	3100~4200 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,	$T_C=85^{\circ}C$	160			1770	A
V_{RRM}	Repetitive peak reverse voltage	tp=10ms		160	3100		4200	V
I_{RRM}	Repetitive peak current	at 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 slope resistance						0.26	mΩ
V_{FM}	Peak forward voltage	$I_{FM}=2400A, F=24kN$		25			2.0	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	$^{\circ}C / W$
$R_{th(c-h)}$	Thermal resistance case to heat sink					0.005		
F_m	Mounting force				19		26	kN
T_{stg}	Stored temperature				-40		160	$^{\circ}C$
W_t	Weight					440		g
Outline	ZT50cT							

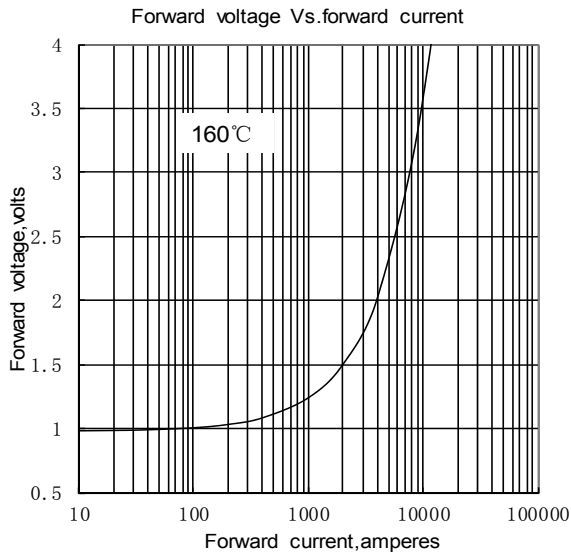


Fig.1

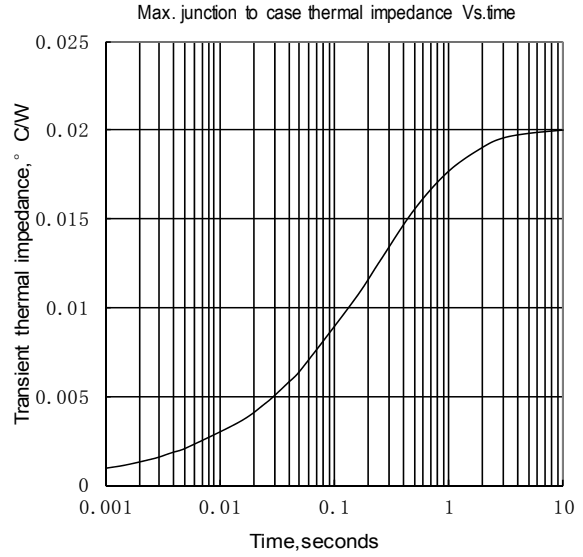


Fig.2

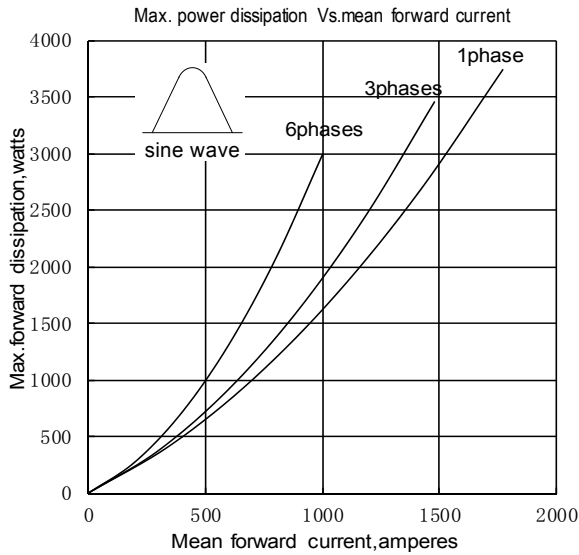


Fig.3

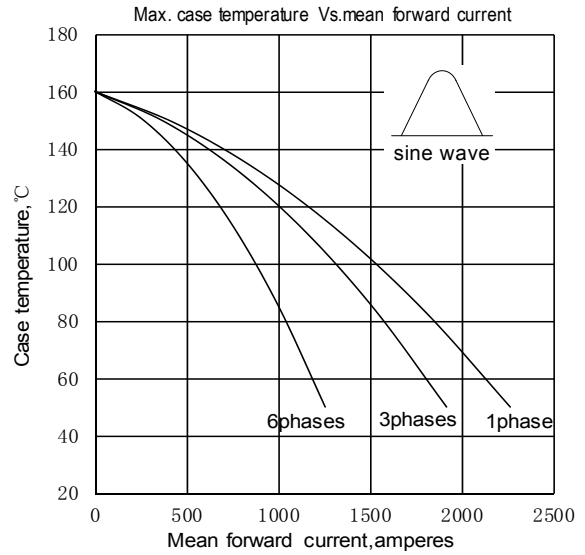


Fig.4

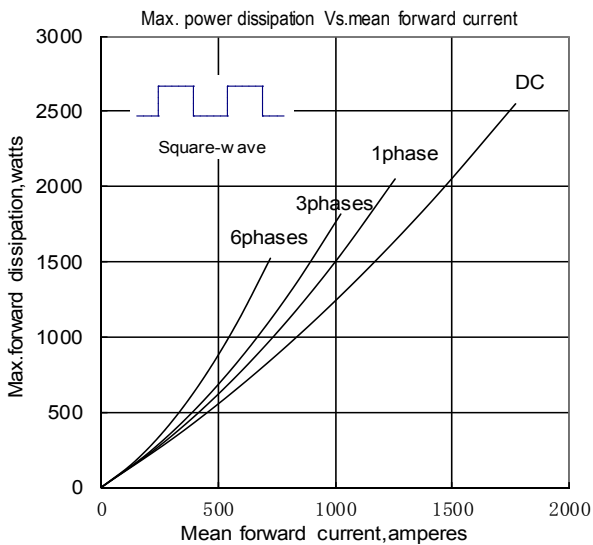


Fig.5

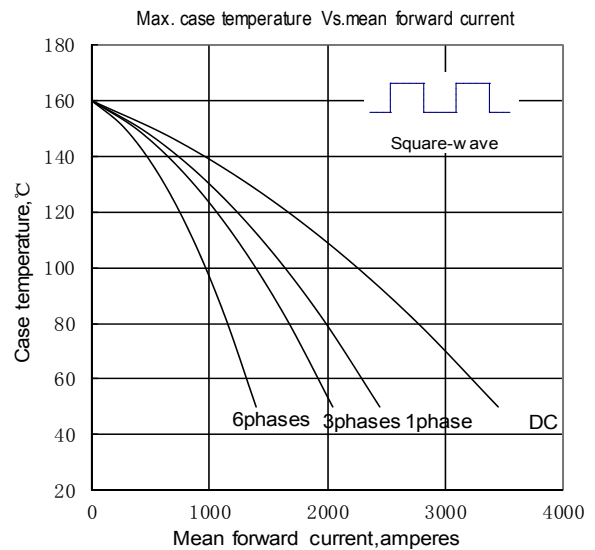


Fig.6

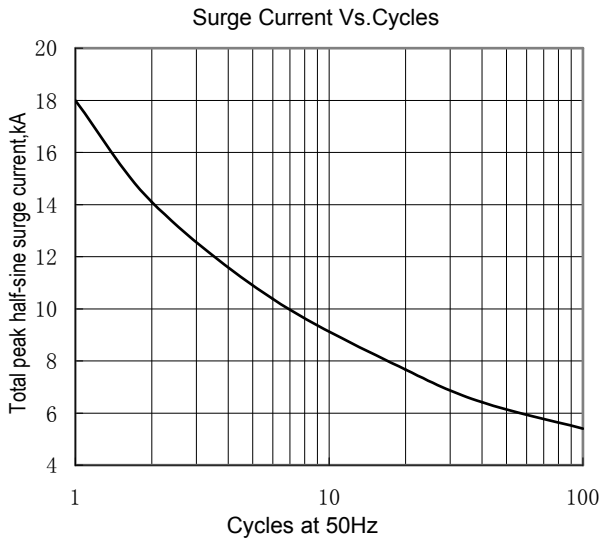


Fig.7

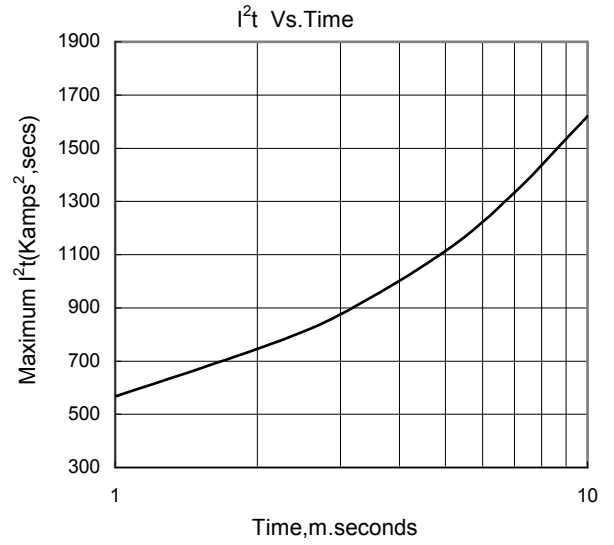


Fig.8

Outline:

