

### 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

$I_{F(AV)}$	<b>2490 A</b>
$V_{RRM}$	<b>1100~2000 V</b>
$I_{FSM}$	<b>27 kA</b>
$I^2t$	<b>3645 <math>10^3 A^2S</math></b>



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,	$T_C=55^{\circ}C$			3000	A
			$T_C=85^{\circ}C$			2490	
$V_{RRM}$	Repetitive peak reverse voltage	$V_{RRM}$ tp=10ms $V_{RSM} = V_{RRM} + 100V$	175	1100		2000	V
$I_{RRM}$	Repetitive peak current	$V_{RM} = V_{RRM}$	175			80	mA
$I_{FSM}$	Surge forward current	10ms half sine wave	175			27	kA
$I^2t$	$I^2T$ for fusing coordination	$V_R = 0.6V_{RRM}$				3645	$A^2s \cdot 10^3$
$V_{FO}$	Threshold voltage		175			0.89	V
$r_F$	Forward slop resistance					0.15	m $\Omega$
$V_{FM}$	Peak on-state voltage	$I_{FM} = 4500A, F = 24kN$	175			1.57	V
$Q_{rr}$	Recovery charge	$I_{FM} = 2000A, tp = 2000\mu s, di/dt = -20A/\mu s, V_R = 50V$	175		3500		$\mu C$
$R_{th(j-c)}$	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		175	$^{\circ}C$
$W_t$	Weight				440		g
Outline	ZT50cT						

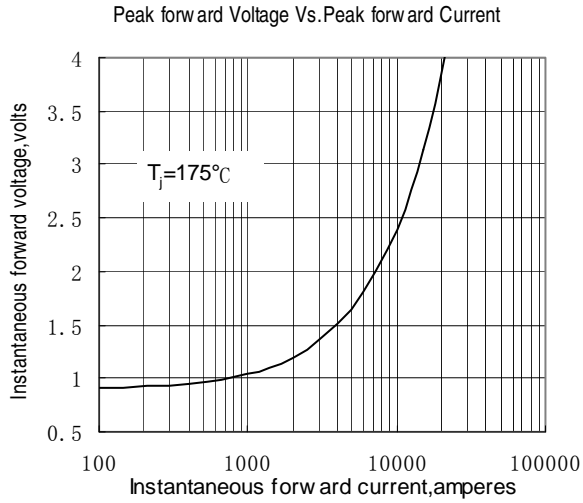


Fig.1

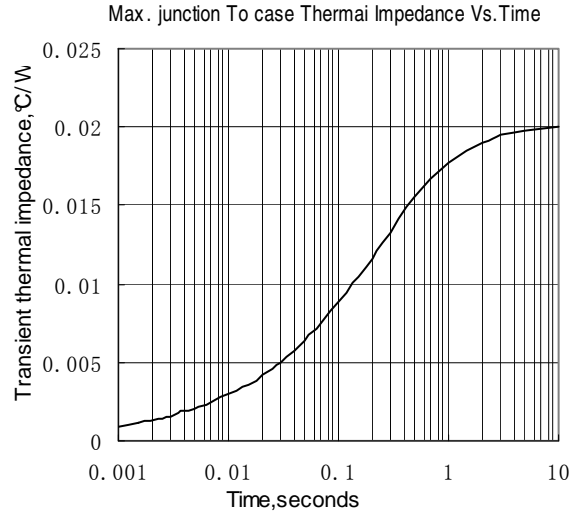


Fig.2

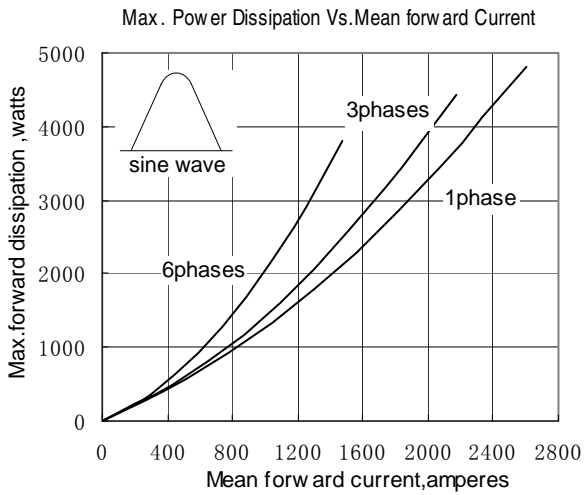


Fig.3

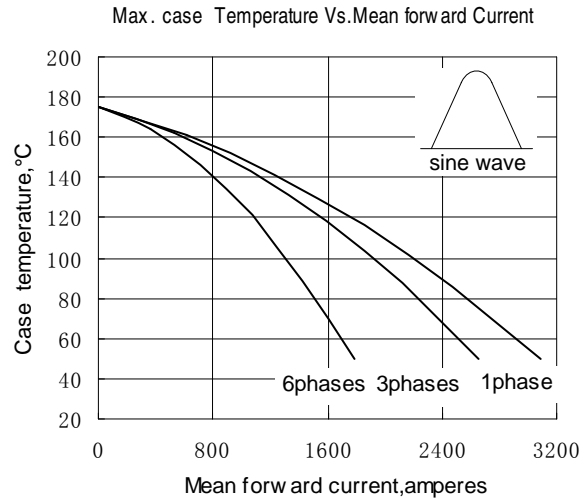


Fig.4

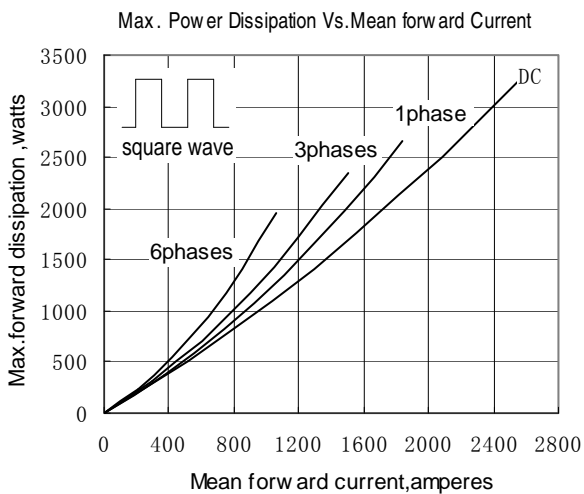


Fig.5

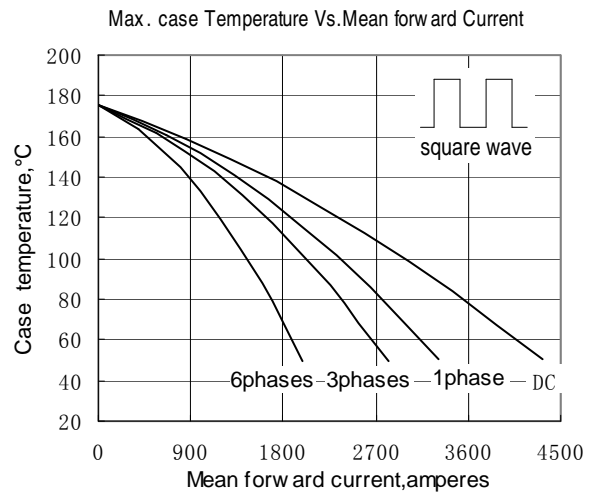


Fig.6

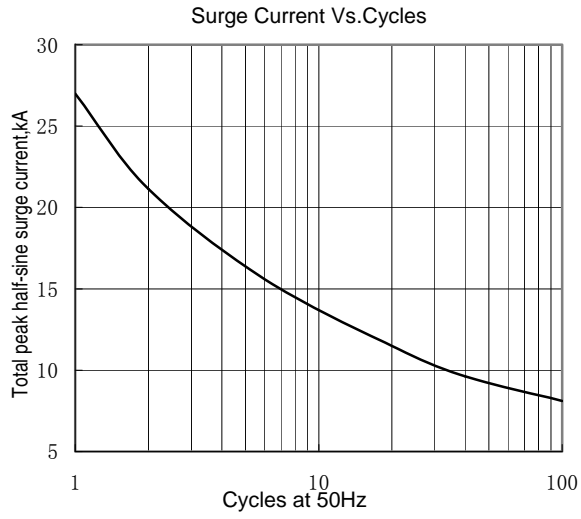


Fig.7

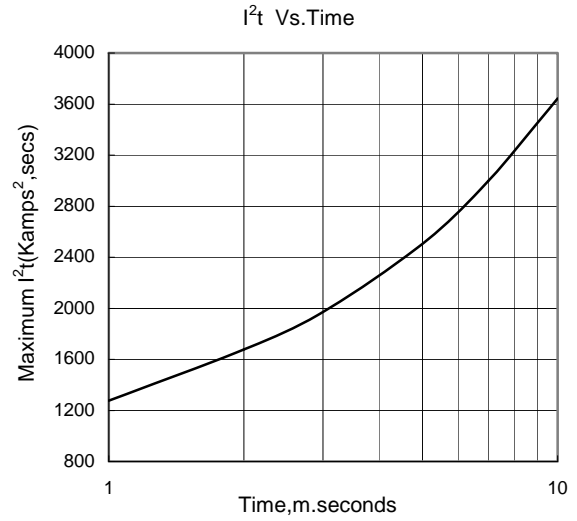


Fig.8

Outline:

