

### 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>1510 A</b>
$V_{RRM}$	<b>5600~6500 V</b>
$I_{FSM}$	<b>26 kA</b>
$I^2t$	<b>3380 <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,	150			2220	A
						1510	
$V_{RRM}$	Repetitive peak reverse voltage	$V_{RRM}$ tp=10ms	150	5600		6500	V
$I_{RRM}$	Repetitive peak current	$V_{RM} = V_{RRM}$	150			200	mA
$I_{FSM}$	Surge forward current	10ms half sine wave	150			26	kA
$I^2t$	$I^2T$ for fusing coordination	$V_R = 0.6V_{RRM}$				3380	$A^2s \cdot 10^3$
$V_{FO}$	Threshold voltage		150			0.92	V
$r_F$	Forward slop resistance					0.39	m $\Omega$
$V_{FM}$	Peak on-state voltage	$I_{FM} = 1500A, F = 32kN$	150			1.85	V
$Q_{rr}$	Recovery charge	$I_{FM} = 2000A, tp = 2000\mu s, di/dt = -5A/\mu s, V_R = 50V$	150		5000		$\mu C$
$R_{th(j-c)}$	Thermal resistance Junction to case	At 180° sine double side cooled Clamping force 32kN				0.014	$^{\circ}C / W$
$R_{th(c-h)}$	Thermal resistance case to heatsink					0.0035	
$F_m$	Mounting force			27	32	34	kN
$T_{stg}$	Stored temperature			-40		160	$^{\circ}C$
$W_t$	Weight				1000		g
Outline	ZT60dT65						

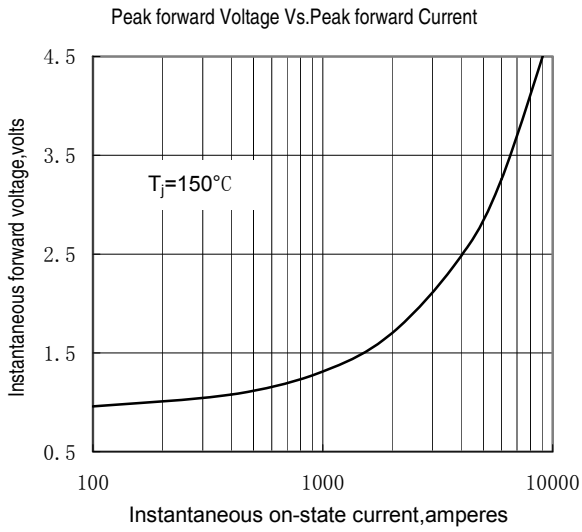


Fig.1

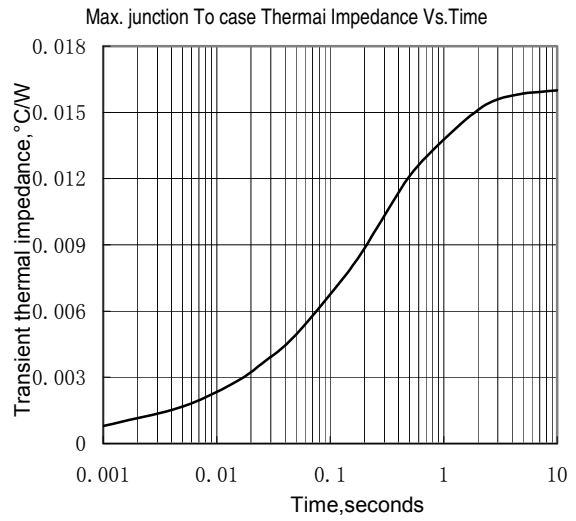


Fig.2

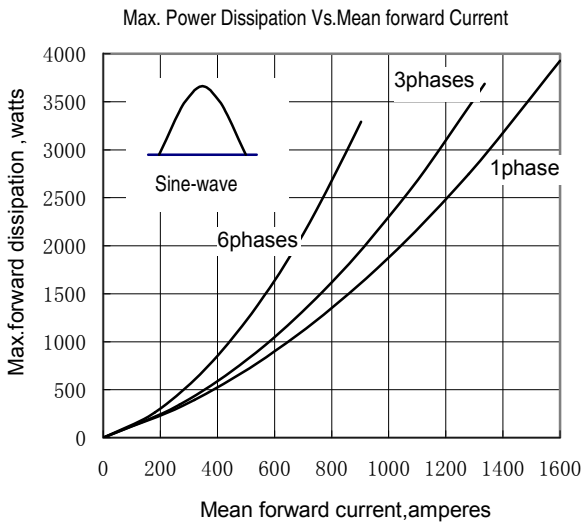


Fig.3

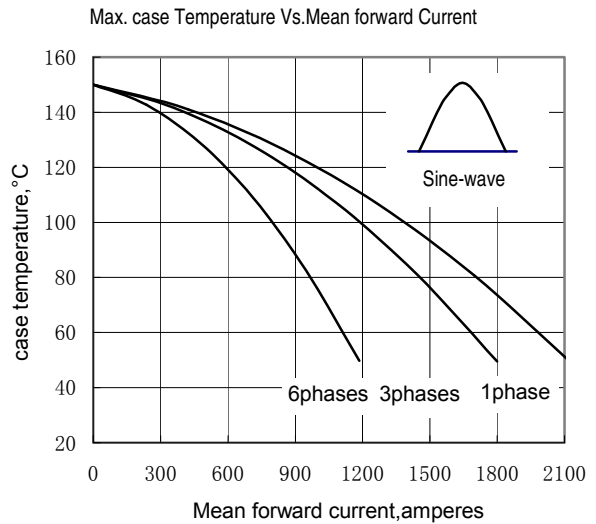


Fig.4

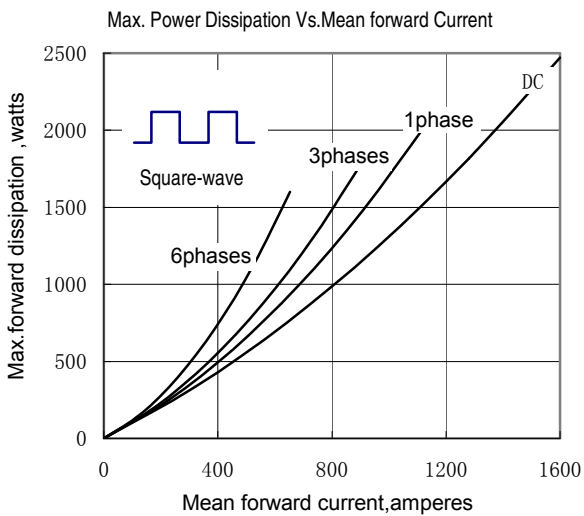


Fig.5

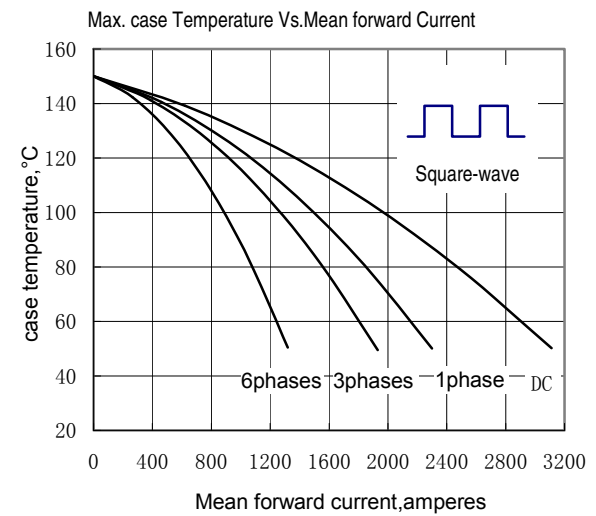


Fig.6

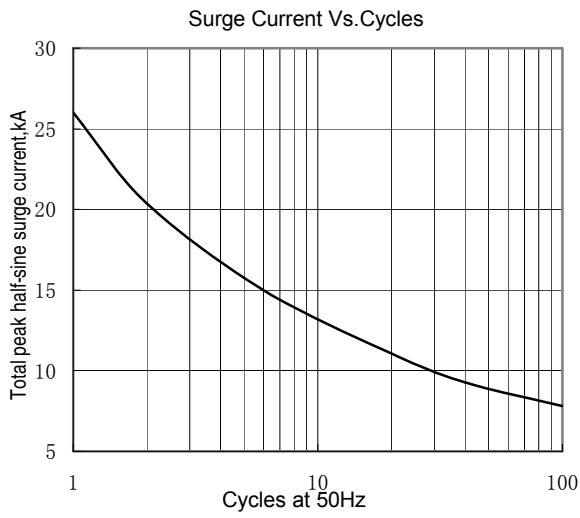


Fig.7

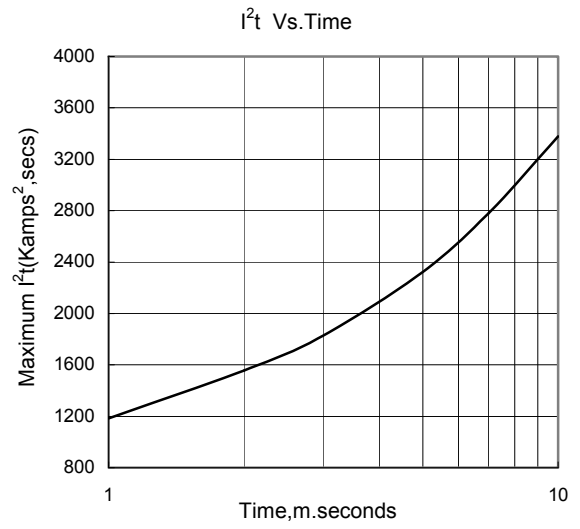


Fig.8

Outline:

