

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

$I_{F(AV)}$	6360 A
V_{RRM}	200~400 V
I_{FSM}	55 kA
I^2t	15125 $10^3 A^2S$



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,	190			6360	A
						5400	
V_{RRM}	Repetitive peak reverse voltage	V_{RRM} tp=10ms $V_{RSM}=V_{RRM}+100V$	190	200		400	V
I_{RRM}	Repetitive peak current	$V_{RM}=V_{RRM}$	190			50	mA
I_{FSM}	Surge forward current	10ms half sine wave $V_R=0.6V_{RRM}$	190			55	kA
I^2t	I^2T for fusing coordination					15125	A^2s*10^3
V_{FO}	Threshold voltage		190			0.75	V
r_F	Forward slop resistance					0.052	mΩ
V_{FM}	Peak on-state voltage	$I_{FM}=6400A$, F=24kN	190			1.10	V
Q_{rr}	Recovery charge	$I_{FM}=2000A$, tp=2000μs, di/dt=-20A/μs, $V_R=50V$	190		3500		μC
$R_{th(j-c)}$	Thermal resistance Junction to case	At 180° sine double side cooled Clamping force 24.0kN				0.0135	°C /W
$R_{th(c-h)}$	Thermal resistance case to heat sink					0.0035	
F_m	Mounting force			19		26	kN
T_{stg}	Stored temperature			-40		190	°C
W_t	Weight				140		
Outline		ZT44T					

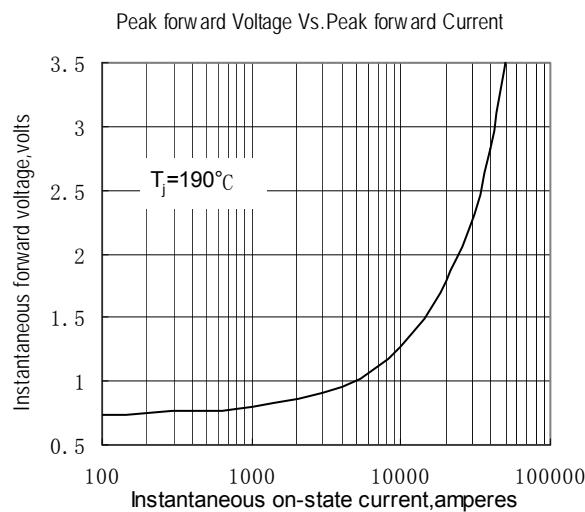


Fig.1

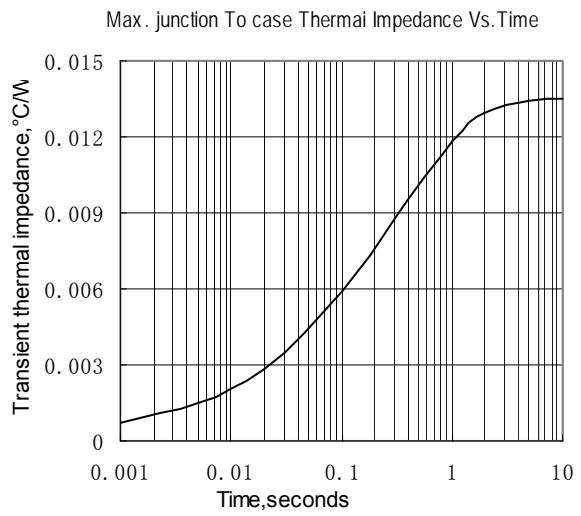


Fig.2

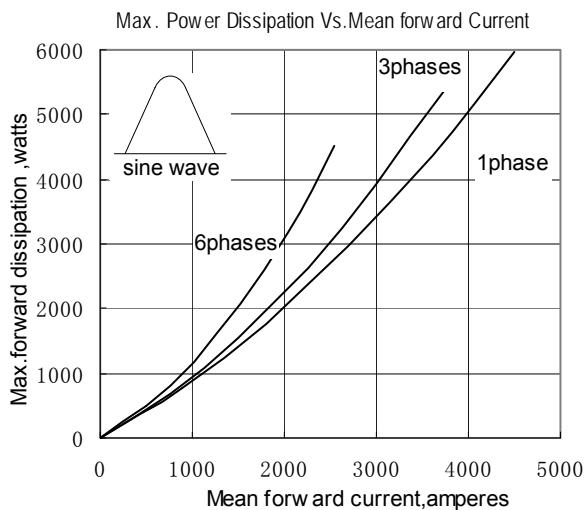


Fig.3

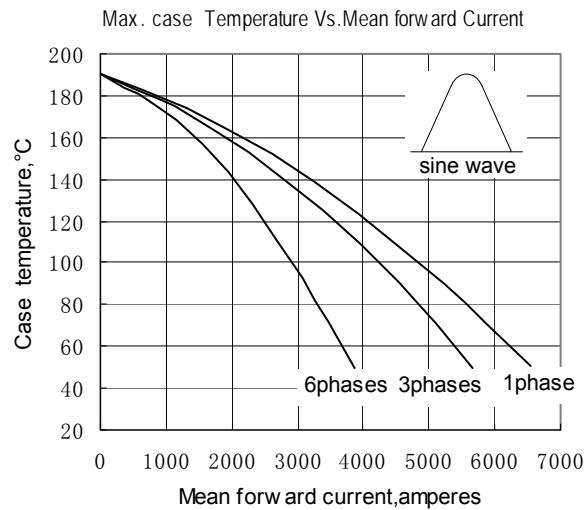


Fig.4

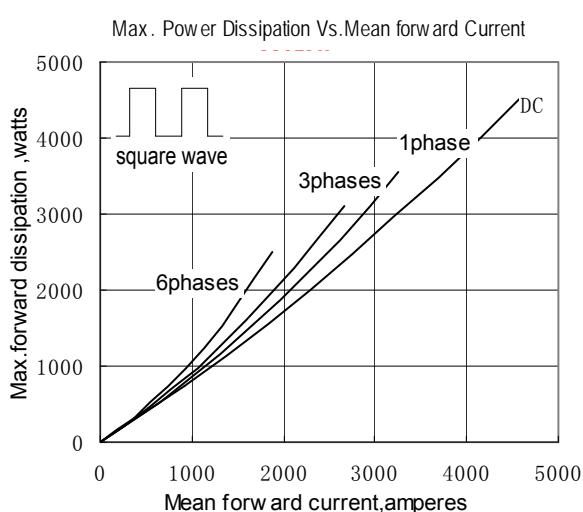


Fig.5

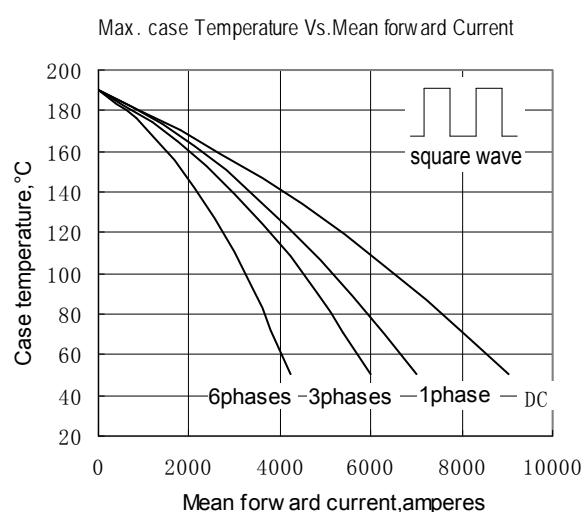


Fig.6

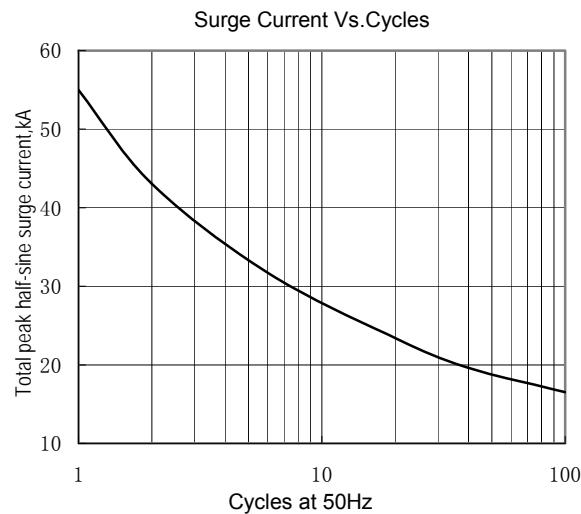


Fig.7

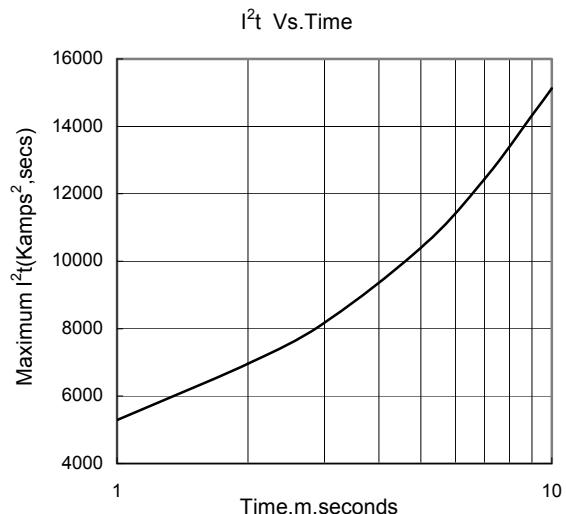


Fig.8

Outline: