

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

$I_{F(AV)}$	970 A
V_{RRM}	5600~6500 V
I_{FSM}	16.5 kA
I^2t	1360 $10^3 A^2S$



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,	150			1430	A
						970	
V_{RRM}	Repetitive peak reverse voltage	V_{RRM} tp=10ms	150	5600		6500	V
I_{RRM}	Repetitive peak current	$V_{RM} = V_{RRM}$	150			100	mA
I_{FSM}	Surge forward current	10ms half sine wave	150			16.5	kA
I^2t	I^2T for fusing coordination	$V_R = 0.6V_{RRM}$				1360	$A^2s \cdot 10^3$
V_{FO}	Threshold voltage		150			0.91	V
r_F	Forward slop resistance					0.60	mΩ
V_{FM}	Peak on-state voltage	$I_{FM} = 1500A, F = 24kN$	150			2.15	V
Q_{rr}	Recovery charge	$I_{FM} = 2000A, tp = 2000\mu s,$ $di/dt = -5A/\mu s, V_R = 50V$			3500		μC
$R_{th(j-c)}$	Thermal resistance Junction to case	At 180° sine double side cooled Clamping force 24kN				0.022	°C /W
$R_{th(c-h)}$	Thermal resistance case to heatsink					0.005	
F_m	Mounting force			19		26	kN
T_{stg}	Stored temperature			-40		160	°C
W_t	Weight				590		g
Outline	ZT50dT						

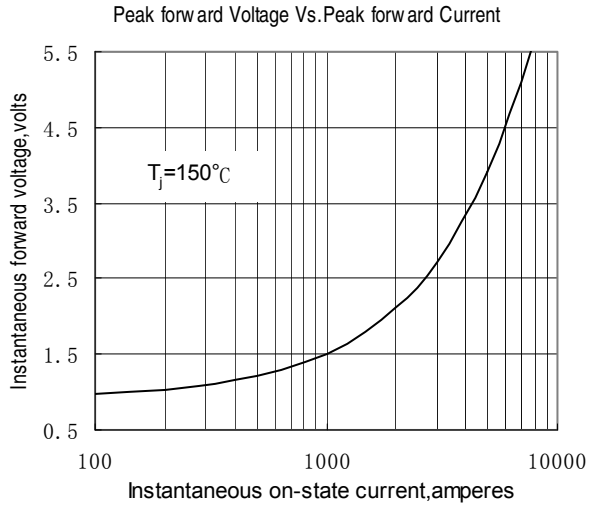


Fig.1

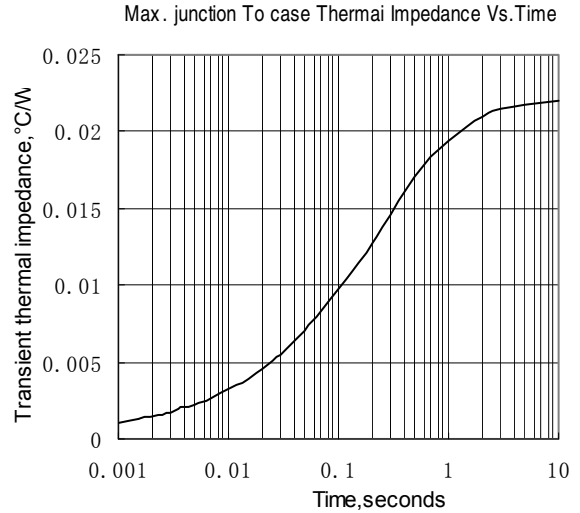


Fig.2

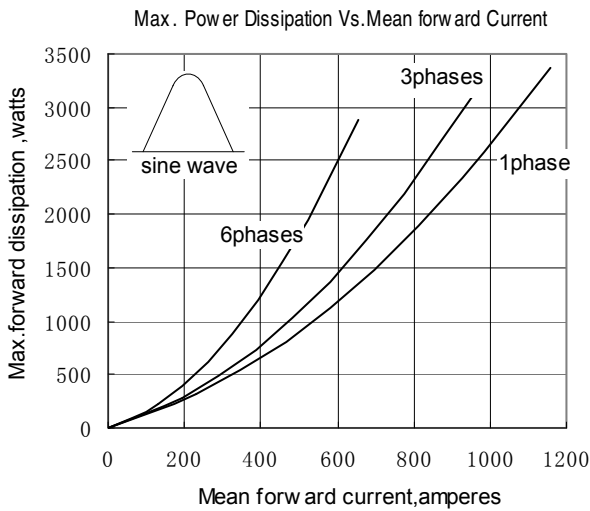


Fig.3

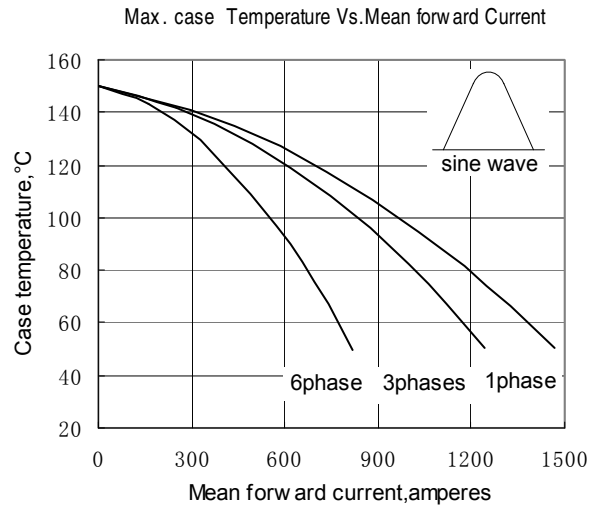


Fig.4

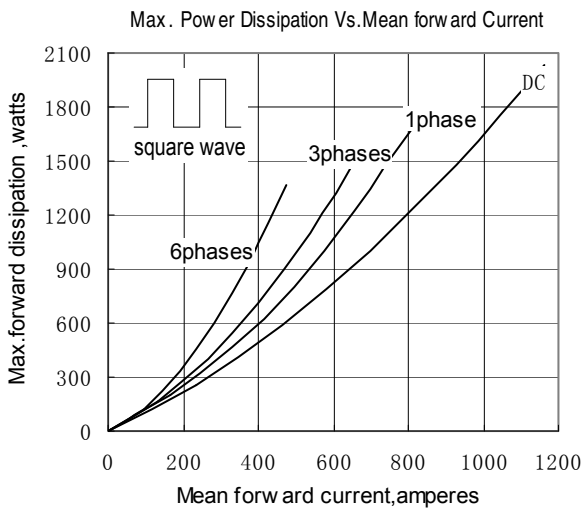


Fig.5

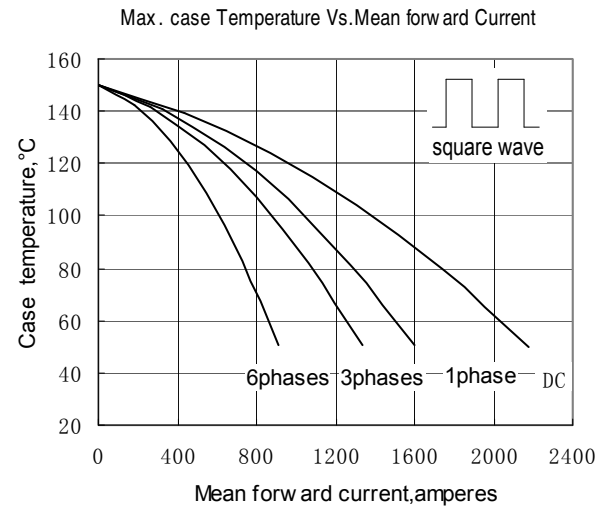


Fig.6

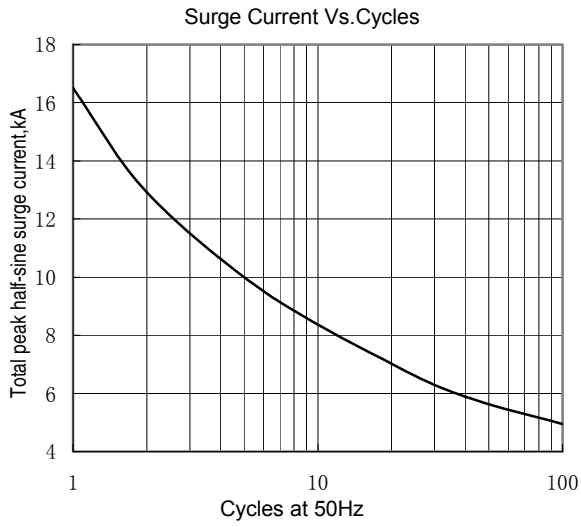


Fig.7

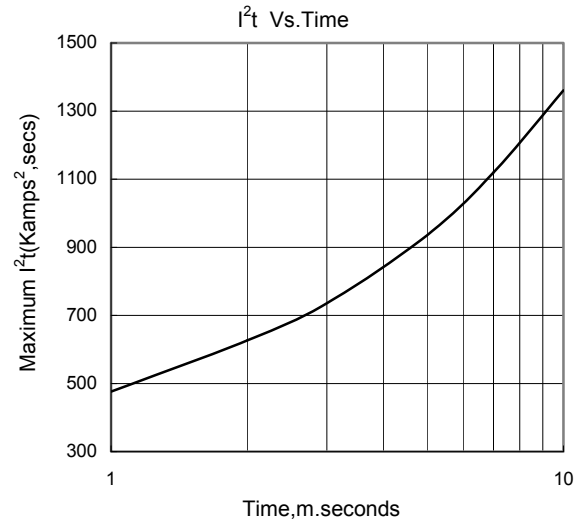


Fig.8

Outline:

