

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*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							

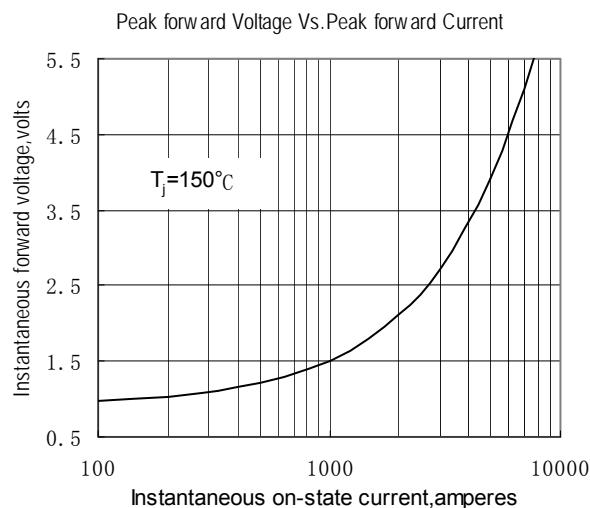


Fig.1

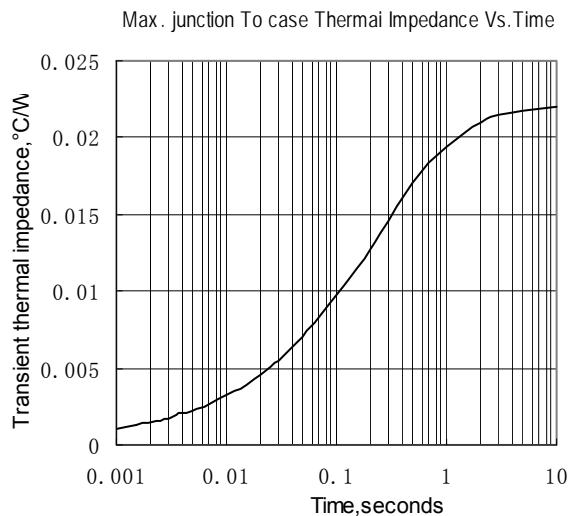


Fig.2

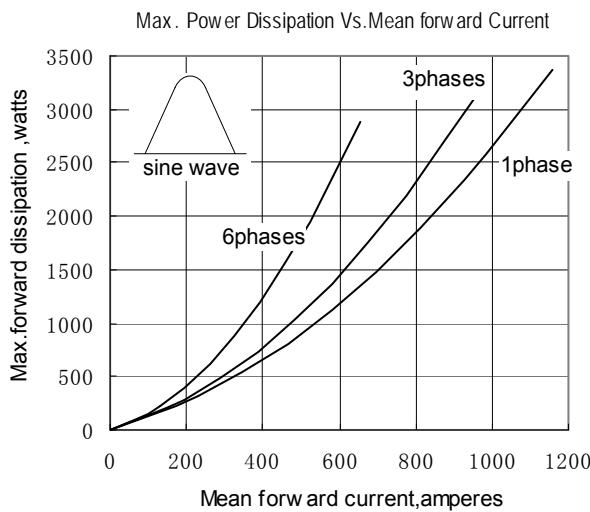


Fig.3

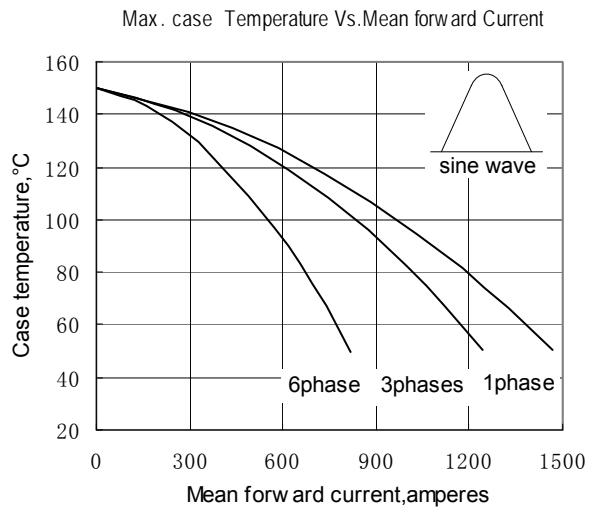


Fig.4

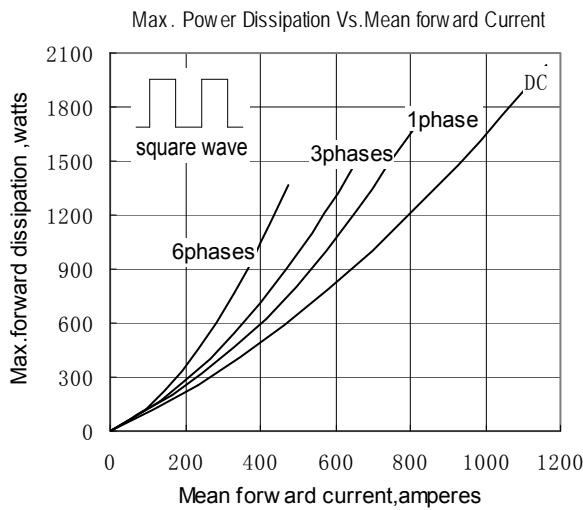


Fig.5

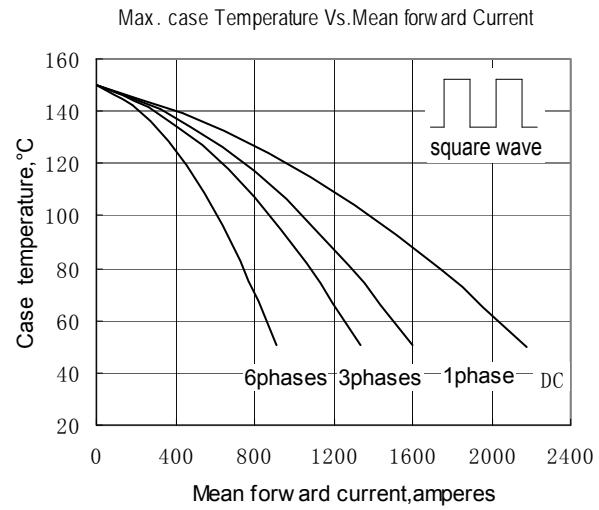


Fig.6

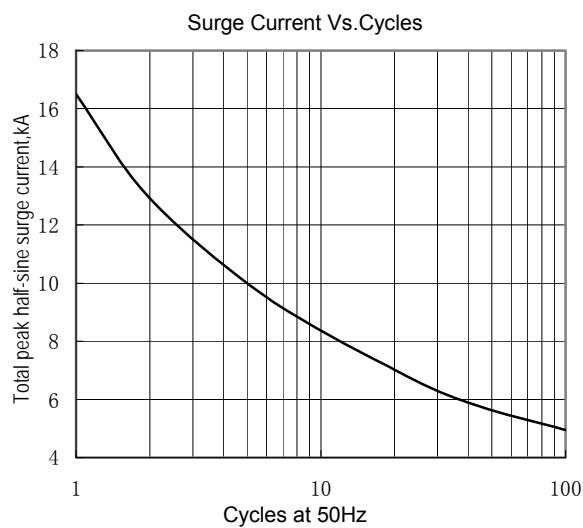


Fig.7

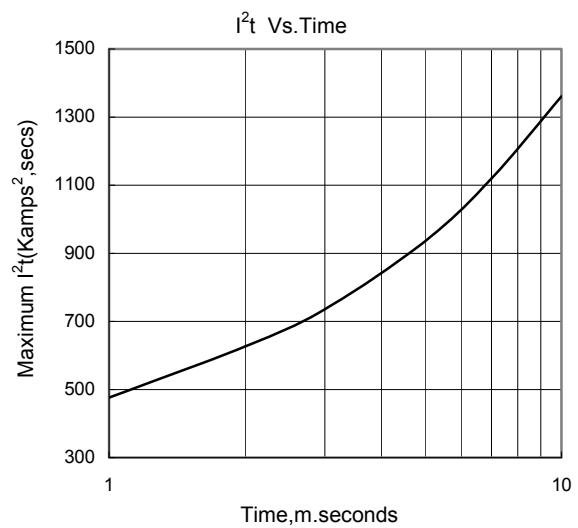


Fig.8

Outline: