

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

$I_{F(AV)}$	2000 A
V_{RRM}	5600~6500 V
I_{FSM}	35 kA
I^2t	6150 10³A²S



SYMBOL	CHARACTERISTIC	TEST CONDITIONS	$T_J(^{\circ}\text{C})$	VALUE			UNIT
				Min	Type	Max	
$I_{F(AV)}$	Mean forward current	180° half sine wave 50Hz Double side cooled,	150			2970	A
						2000	
V_{RRM}	Repetitive peak reverse voltage	V_{RRM} tp=10ms	150	5600		6500	V
I_{RRM}	Repetitive peak current	$V_{RM} = V_{RRM}$	150			300	mA
I_{FSM}	Surge forward current	10ms half sine wave	150			35	kA
I^2t	I^2T for fusing coordination	$V_R = 0.6V_{RRM}$				6150	A ² s*10 ³
V_{FO}	Threshold voltage		150			0.94	V
r_F	Forward slop resistance					0.27	mΩ
V_{FM}	Peak on-state voltage	$I_{FM} = 3000A, F = 40kN$	150			1.80	V
Q_{rr}	Recovery charge	$I_{FM} = 2000A, tp = 2000\mu s, di/dt = -5A/\mu s, V_R = 50V$	150		6500		μC
$R_{th(j-c)}$	Thermal resistance Junction to case	At 180° sine double side cooled Clamping force 40kN				0.011	°C /W
$R_{th(c-h)}$	Thermal resistance case to heatsink					0.003	
F_m	Mounting force			35	40	47	kN
T_{stg}	Stored temperature			-40		160	°C
W_t	Weight				1200		g
Outline	ZT73dT						

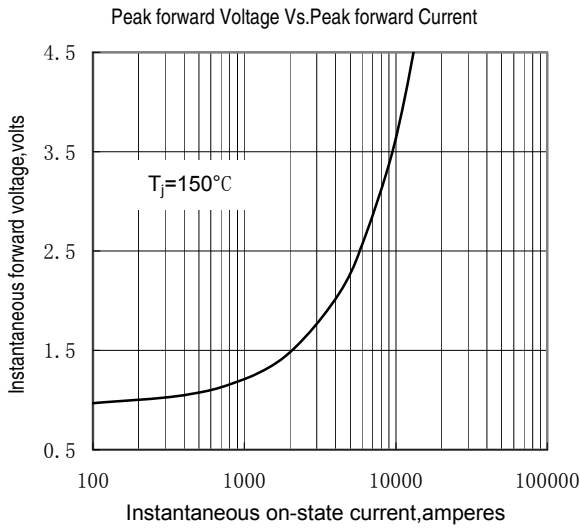


Fig.1

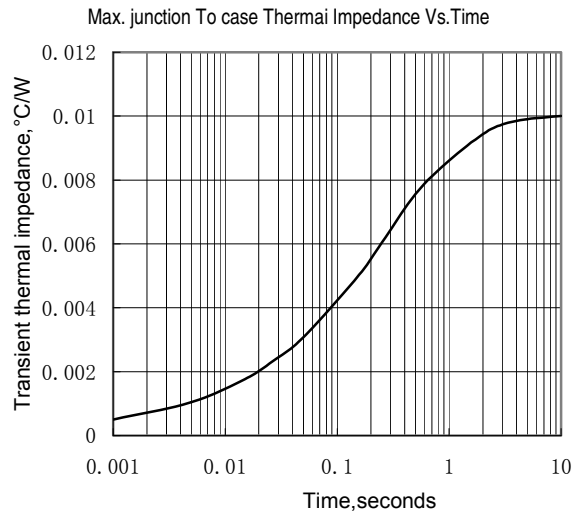


Fig.2

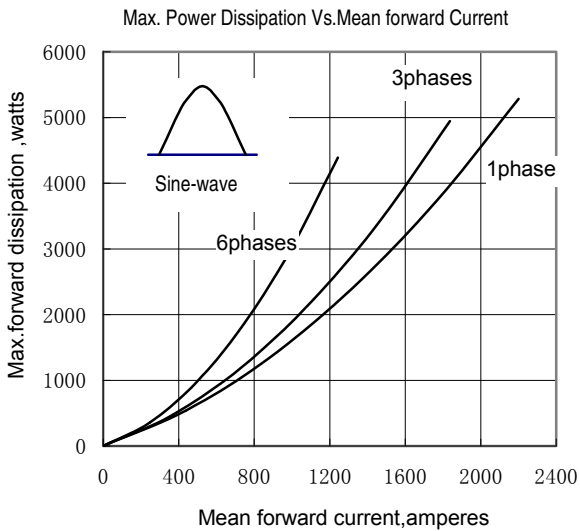


Fig.3

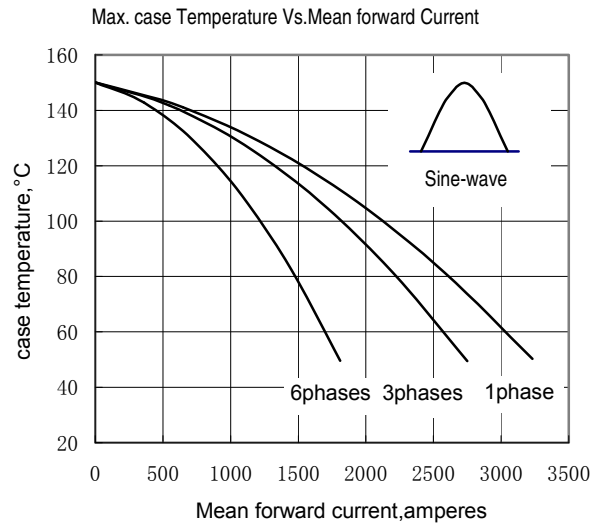


Fig.4

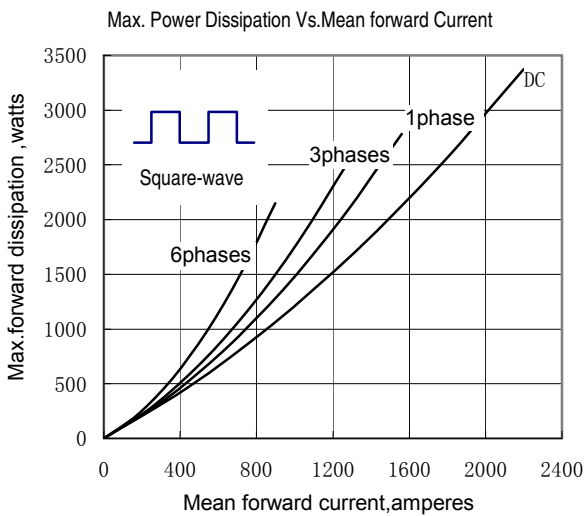


Fig.5

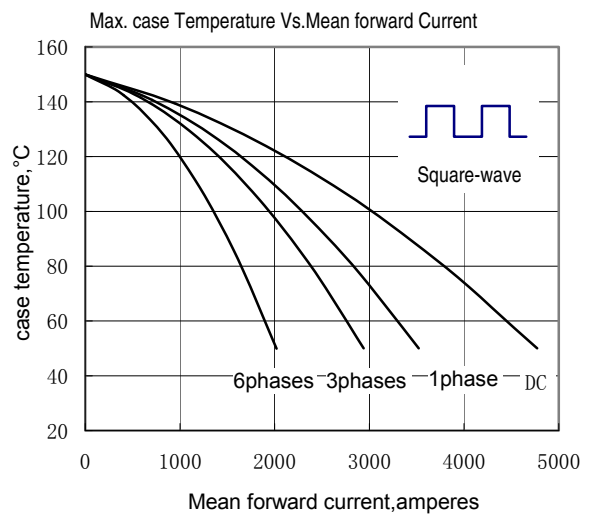


Fig.6

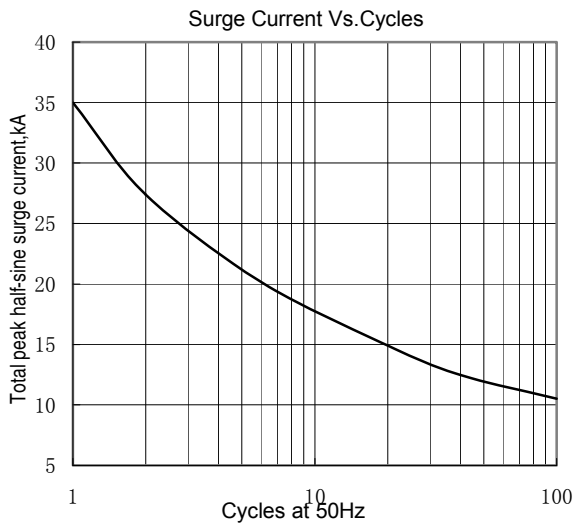


Fig.7

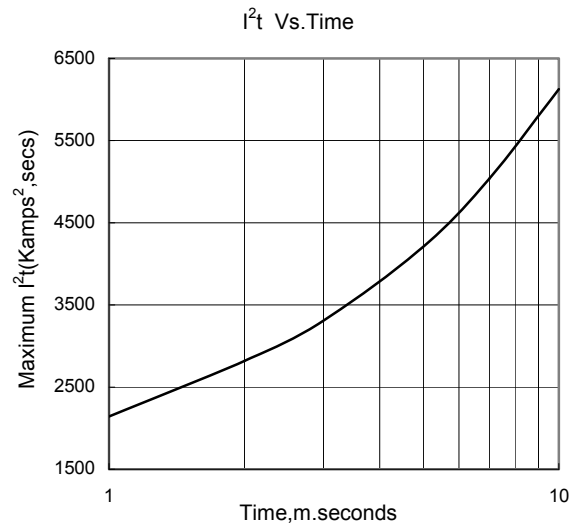


Fig.8

Outline:

