

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	1361 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, $T_C=100^{\circ}\text{C}$	150			970	A
V_{RRM}	Repetitive peak reverse voltage	$t_p=10\text{ms}$	150	5600		6500	V
I_{RRM}	Repetitive peak current	At 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	$V_R=0.6V_{RRM}$				1361	A ² s*10 ³
V_{FO}	Threshold voltage		150			0.91	V
r_F	Forward slope resistance					0.60	mΩ
V_{FM}	Peak forward voltage	$I_{FM}=1500\text{A}$, $F=26\text{kN}$	25			2.15	V
Q_{rr}	Recovery charge	$I_{FM}=2000\text{A}$, $t_p=2000\mu\text{s}$, $di/dt=-5\text{A}/\mu\text{s}$, $V_R=50\text{V}$			3500		μC
$R_{th(j-c)}$	Thermal resistance Junction to case	At 180° sine double side cooled Clamping force 26kN				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				440		g
Outline	ZT50cT/ ZT50dT						

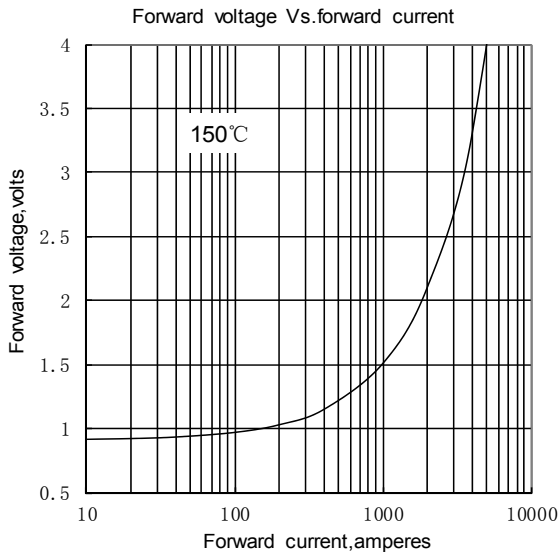


Fig.1

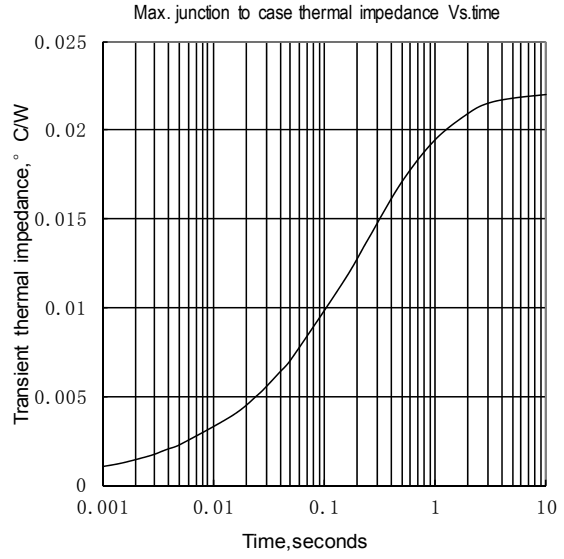


Fig.2

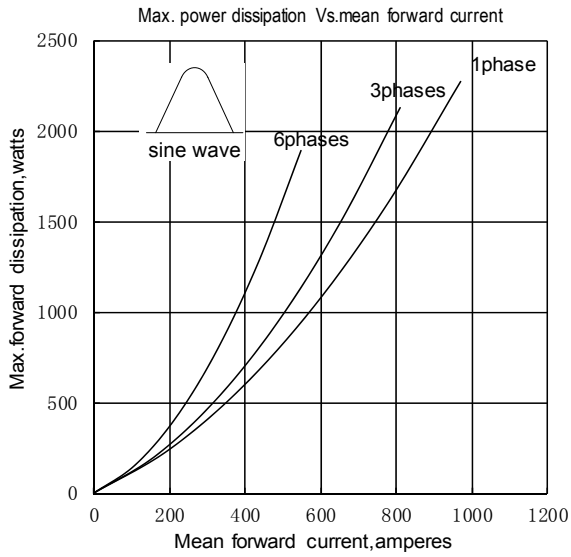


Fig.3

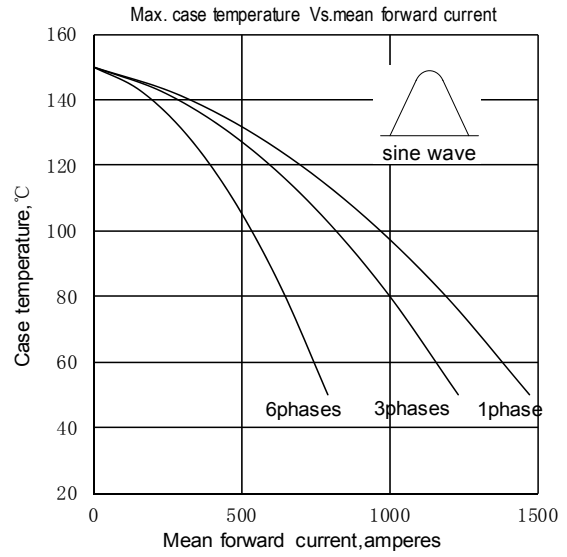


Fig.4

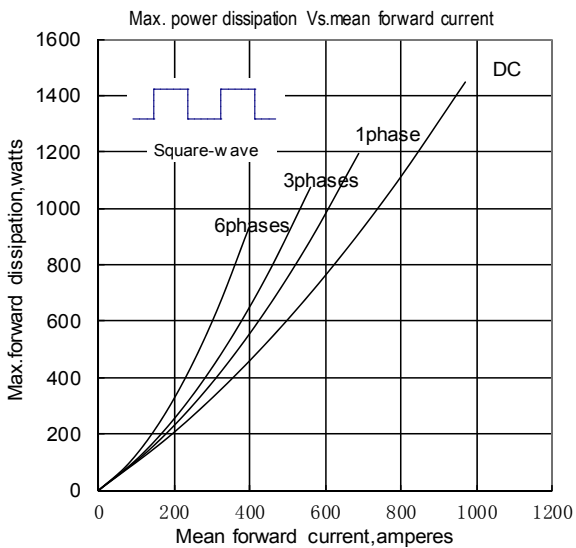


Fig.5

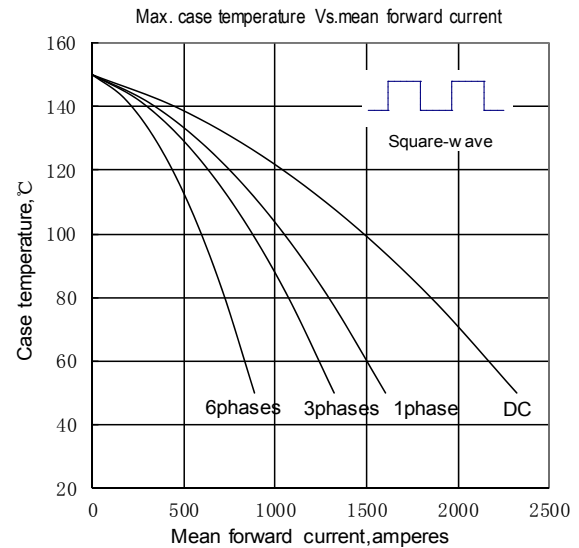


Fig.6

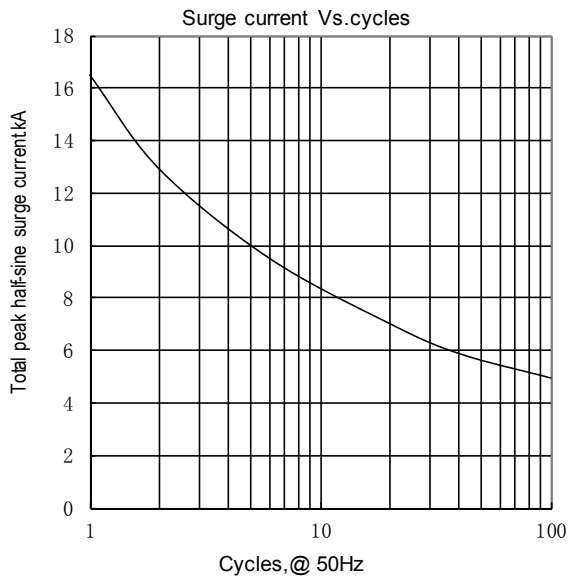


Fig.7

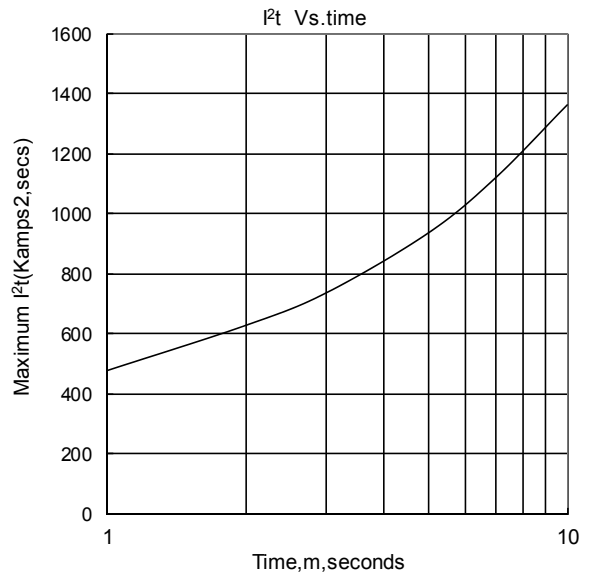


Fig.8

Outline:

