

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

$I_{F(AV)}$ **6490A**
 V_{RRM} **3100~4200 V**
 I_{FSM} **80 kA**
 I^2t **32000 10³A²S**



SYMBOL	CHARACTERISTIC	TEST CONDITIONS	T _j (°C)	VALUE			UNIT
				Min	Type	Max	
I _{F(AV)}	Mean forward current	180° half sine wave 50Hz Double side cooled,	160			7990	A
						6490	
V _{RRM}	Repetitive peak reverse voltage	V _{RRM} tp=10ms V _{RSM} = V _{RRM} +100V	160	3100		4200	V
I _{RRM}	Repetitive peak current	V _{RM} = V _{RRM}	160			250	mA
I _{FSM}	Surge forward current	10ms half sine wave	160			80	kA
I ² t	I ² T for fusing coordination	V _R =0.6V _{RRM}					32000
V _{FO}	Threshold voltage		160			0.92	V
r _F	Forward slop resistance						0.087
V _{FM}	Peak on-state voltage	I _{FM} =6000A, F=90kN	160			1.44	V
Q _{rr}	Recovery charge	I _{FM} =2000A, tp=2000μs, di/dt=-20A/μs, V _R =50V	160		9000		μC
R _{th(j-c)}	Thermal resistance Junction to case	At 180° sine double side cooled Clamping force 90kN				0.005	°C /W
R _{th(c-h)}	Thermal resistance case to heat sink					0.0015	
F _m	Mounting force			81		108	kN
T _{stg}	Stored temperature			-40		160	°C
W _t	Weight				2000		g
Outline	ZT100cT						

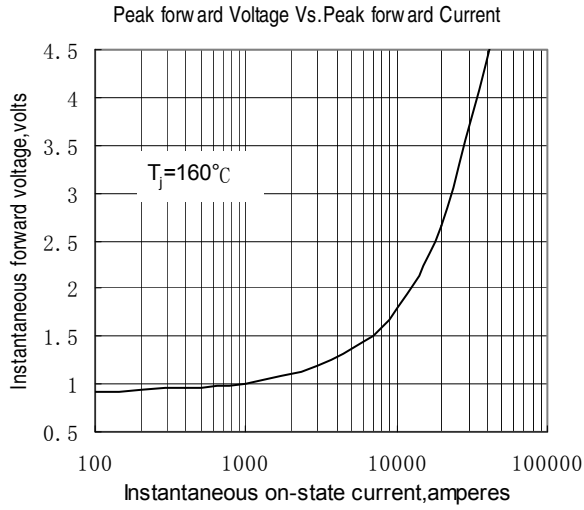


Fig.1

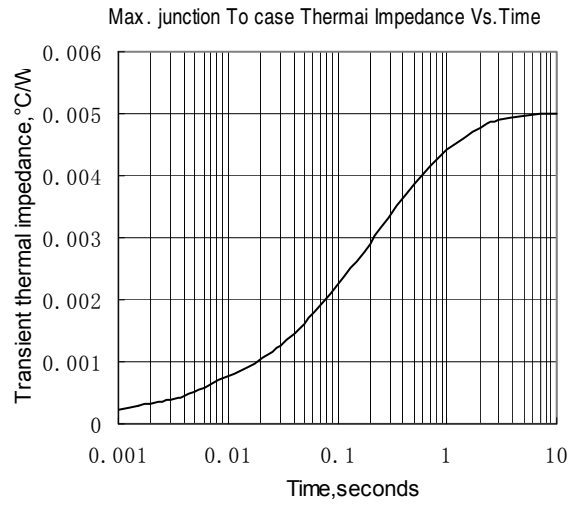


Fig.2

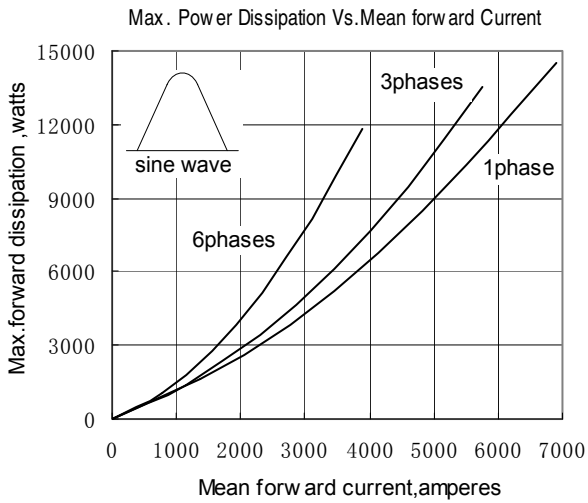


Fig.3

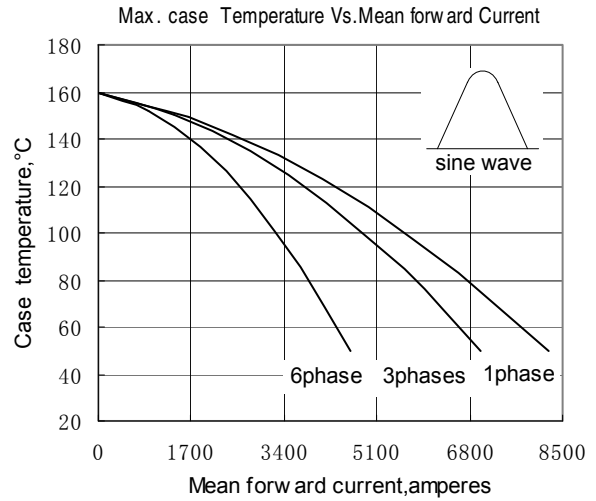


Fig.4

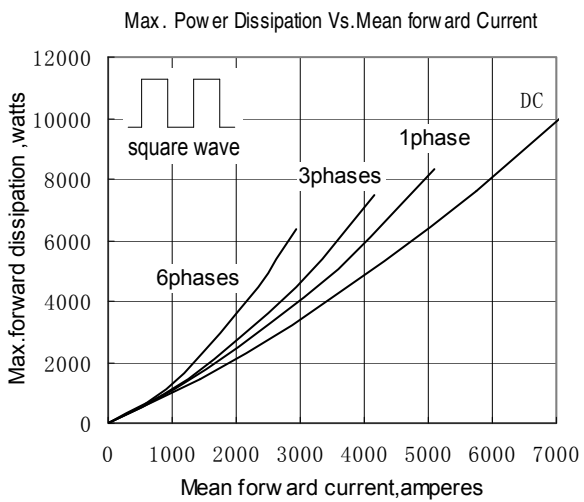


Fig.5

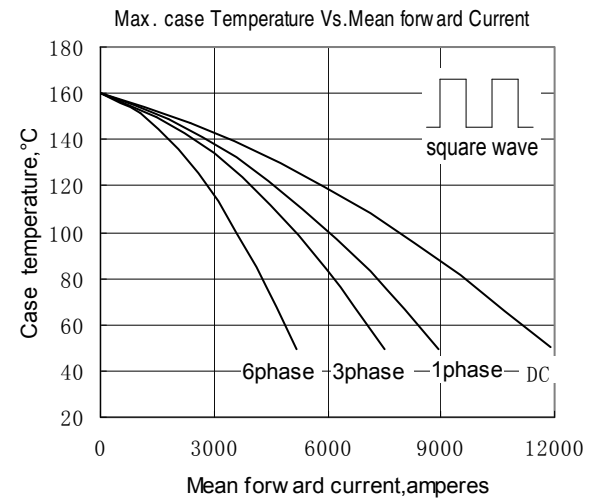


Fig.6

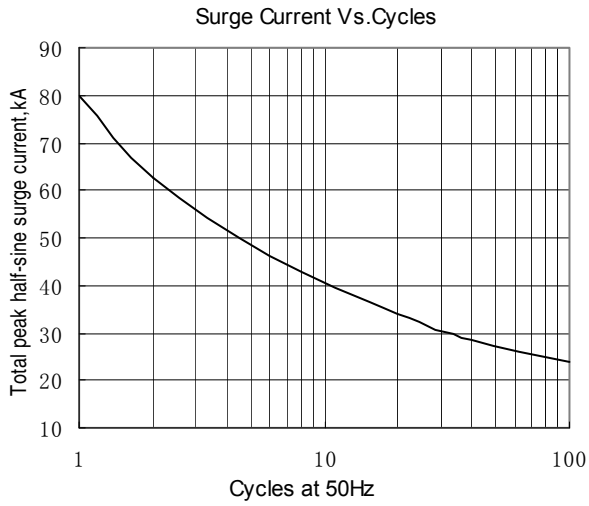


Fig.7

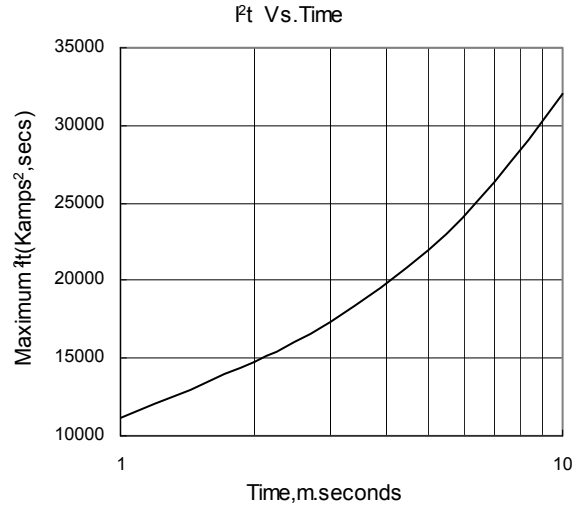


Fig.8

Outline:

