

**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

Part No. Y65ZPG-ZT60cT

$I_{F(AV)}$	2490A
V_{RRM}	4500V 5000V

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, $T_C=85^\circ\text{C}$	150			2490	A
V_{RRM}	Repetitive peak reverse voltage	$t_p=10\text{ms}$	150	4300		5000	V
I_{RRM}	Repetitive peak current	at V_{RRM}	150			150	mA
I_{FSM}	Surge forward current	10ms half sine wave	150			26	kA
I^2t	I^2t for fusing coordination	$V_R=0.6V_{RRM}$				3380	$\text{A}^2\text{s}\cdot 10^3$
V_{FO}	Threshold voltage		150			0.96	V
r_F	Forward slope resistance					0.17	mΩ
V_{FM}	Peak forward voltage	$I_{FM}=3000\text{A}$, $F=34\text{kN}$	25			2.00	V
Q_{rr}	Recovery charge	$I_{FM}=2000\text{A}$, $t_p=4000\mu\text{s}$, $di/dt=-20\text{A}/\mu\text{s}$, $V_R=100\text{V}$	150		4500		μC
$R_{th(j-c)}$	Thermal resistance Junction to case	At 180° sine double side cooled Clamping force 34kN				0.013	C/W
$R_{th(c-h)}$	Thermal resistance case to heatsink					0.0035	
F_m	Mounting force			27	32	34	kN
T_{vj}	Junction temperature			-40		150	°C
T_{stg}	Stored temperature			-40		160	°C
W_t	Weight				820		g
Outline	ZT60cT						

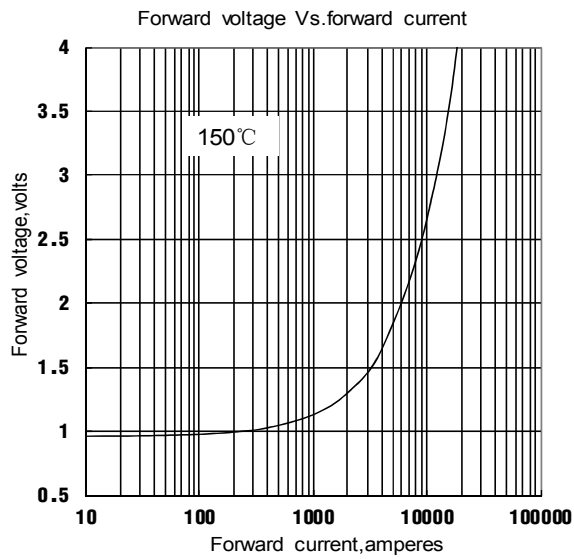


Fig.1

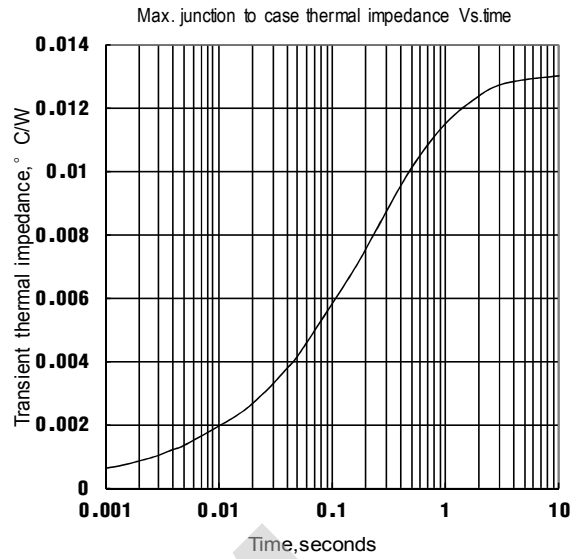


Fig.2

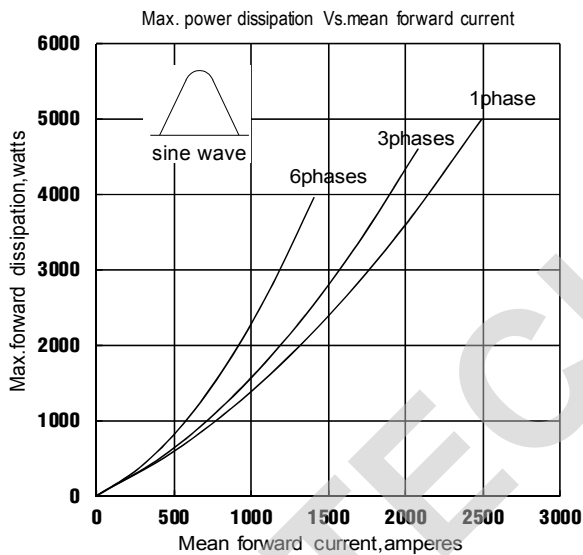


Fig.3

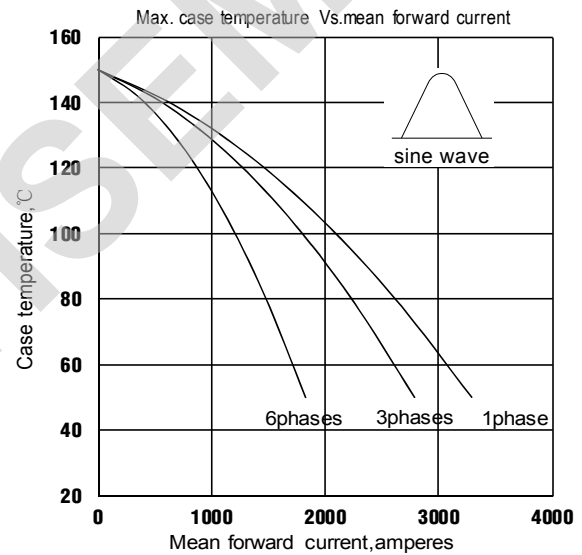


Fig.4

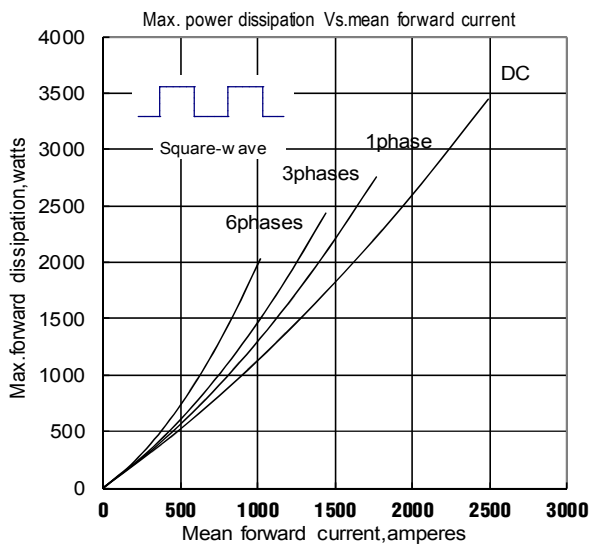


Fig.5

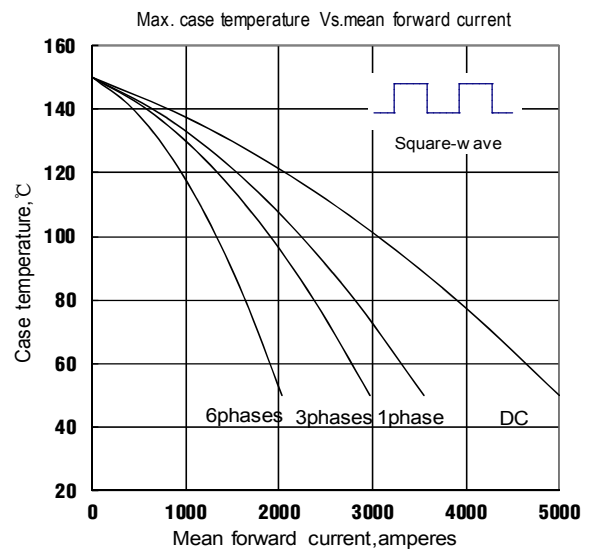


Fig.6

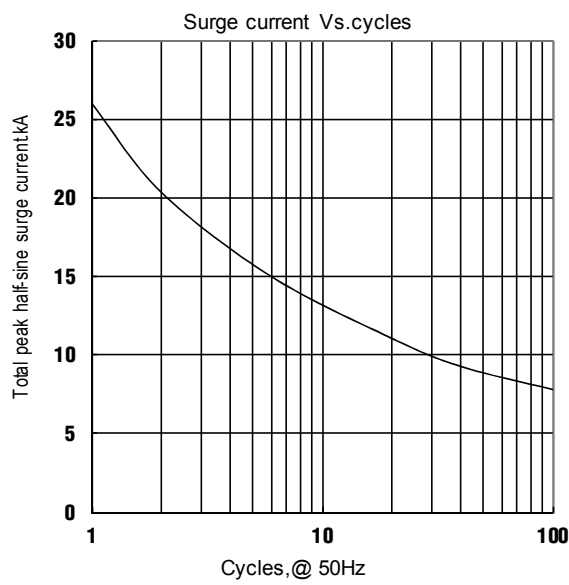


Fig.7

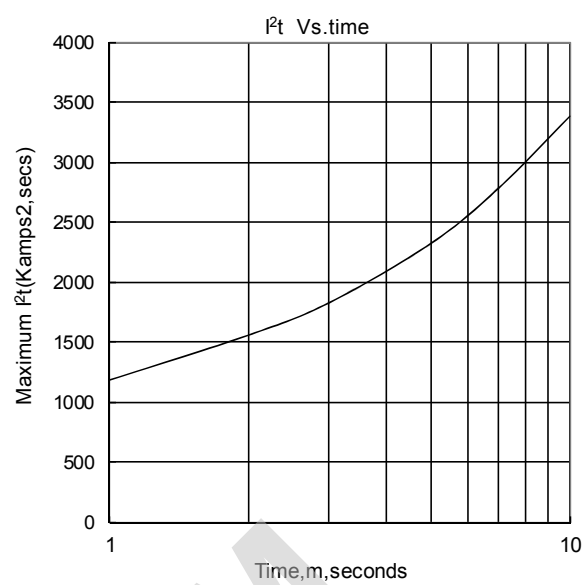
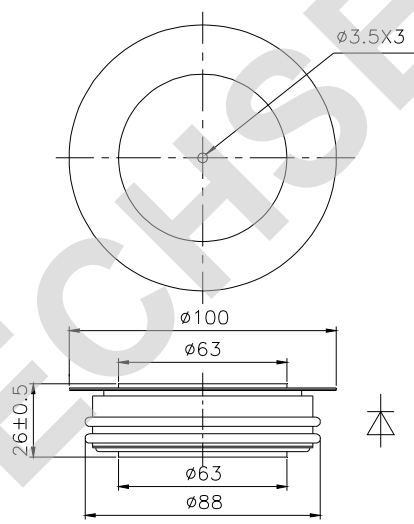


Fig.8

Outline:



TECHSEM reserves the right to change specifications without notice.