

**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. Y65ZPB-ZT60cT

$I_{F(AV)}$	2910A
V_{RRM}	200V 400V
	600V 800V
	1000V

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,	$T_c=85$ C	190			5630	A
V_{RRM}	Repetitive peak reverse voltage	$t_p=10ms$		190	200		1000	V
I_{RRM}	Repetitive peak current	at V_{RRM}		190			100	mA
I_{FSM}	Surge forward current	10ms half sine wave		190			58	kA
I^2t	I^2t for fusing coordination	$V_R=0.6V_{RRM}$					16820	$A^2s \times 10^3$
V_{FO}	Threshold voltage			190			0.63	V
r_F	Forward slope resistance						0.058	m Ω
V_{FM}	Peak on-state voltage	$I_{FM}=5000A$, $F=32kN$		25			1.32	V
Q_{rr}	Recovery charge	$I_{FM}=2000A$, $t_p=4000\mu s$, $di/dt=-20A/\mu s$, $V_R=100V$		190		4500		μC
$R_{th(j-c)}$	Thermal resistance Junction to case	At 180° sine double side cooled Clamping force 32kN					0.013	C/W
$R_{th(c-h)}$	Thermal resistance case to heat sink						0.0035	
F_m	Mounting force				27		34	kN
T_{vj}	Junction temperature				-40		190	C
T_{stg}	Stored temperature				-40		190	C
W_t	Weight					820		g
Outline	ZT60cT							

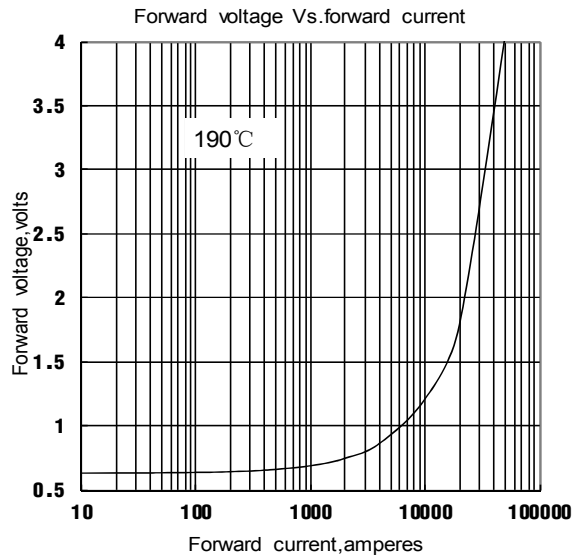


Fig.1

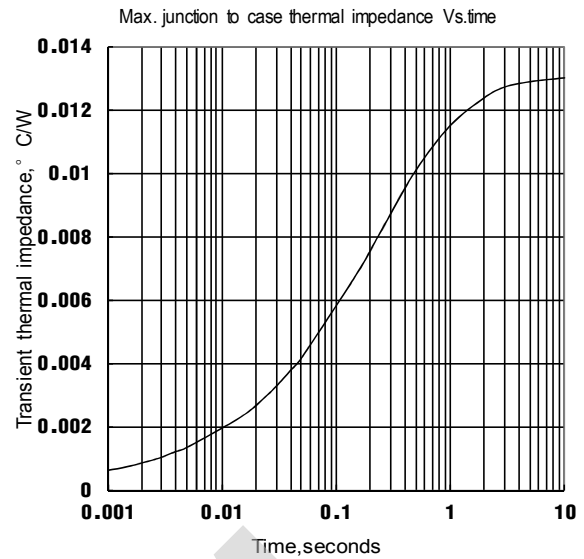


Fig.2

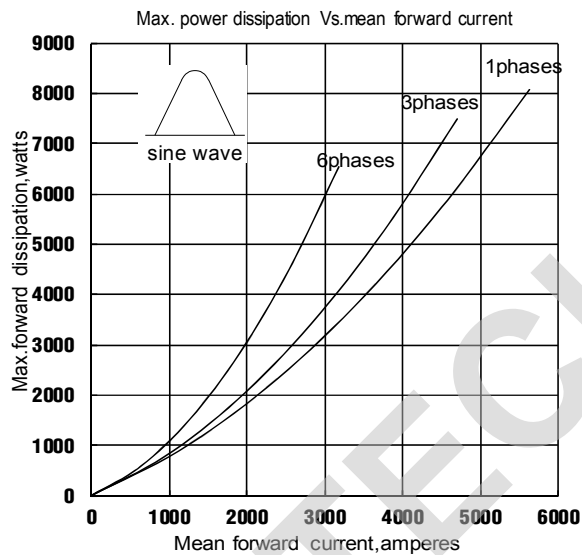


Fig.3

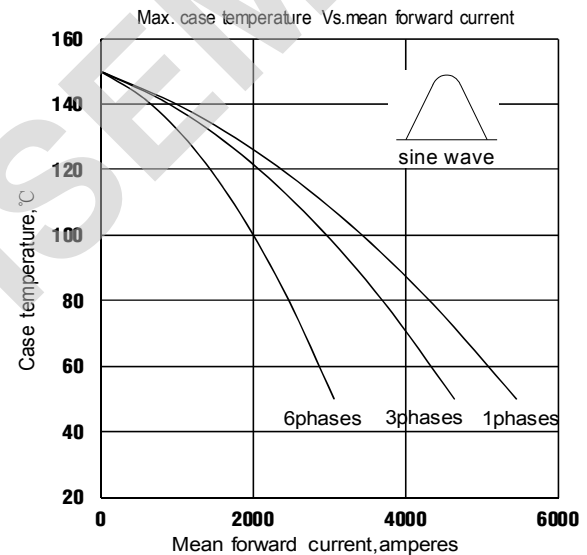


Fig.4

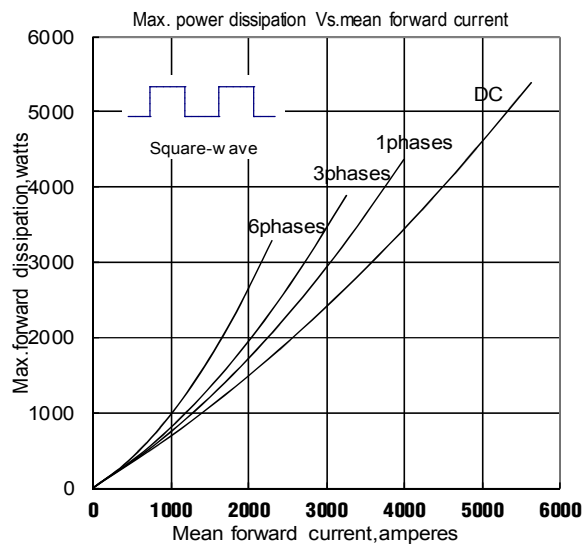


Fig.5

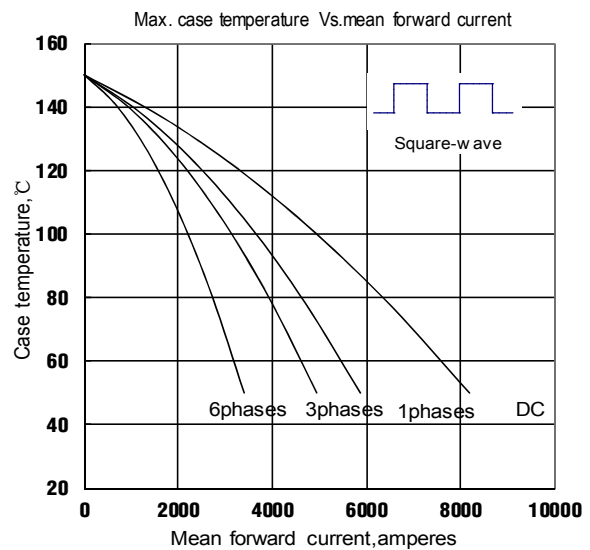


Fig.6

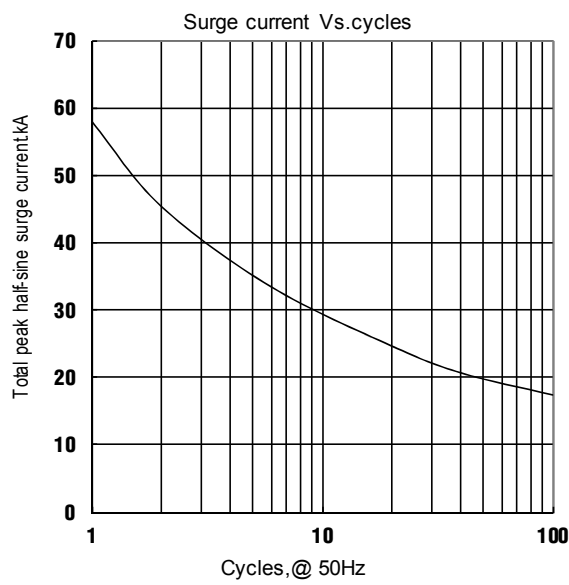


Fig.7

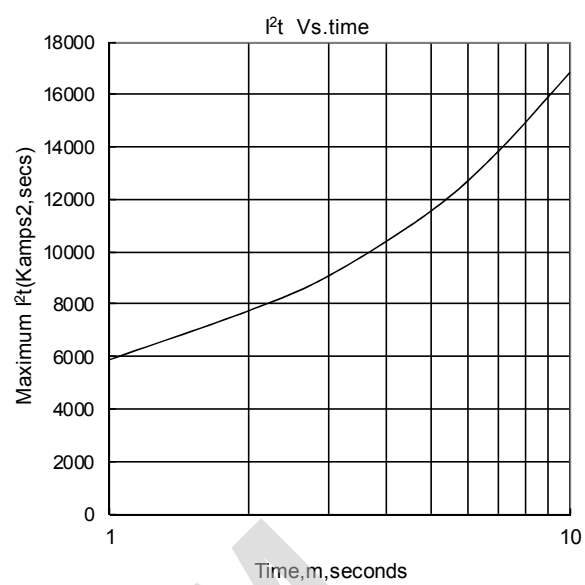
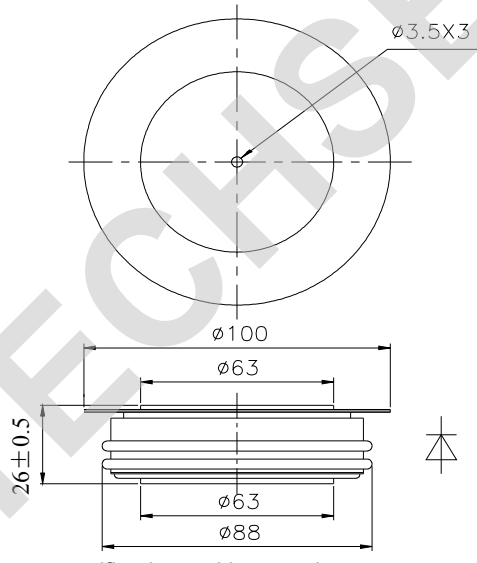


Fig.8

Outline:



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