**Features**

- n Interdigitated amplifying gates
- n Fast turn-on and high di/dt
- n Low switching losses

Typical Applications

- n Inductive heating
- n Electronic welders
- n Self-commutated inverters

Part No. Y65KKG-KT60cT

$I_{T(AV)}$	1920A
V_{DRM}, V_{RRM}	2000V 2200V
	2500V
t_q	40~120μs

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	$T_j(^{\circ}C)$	VALUE			UNIT
				Min	Type	Max	
$I_{T(AV)}$	Mean on-state current	180° half sine wave 50Hz Double side cooled, $T_C=55^{\circ}C$	125			1920	A
V_{DRM} V_{RRM}	Repetitive peak off-state voltage Repetitive peak reverse voltage	$t_p=10ms$	125	1900		2500	V
I_{DRM} I_{RRM}	Repetitive peak current	at V_{DRM} at V_{RRM}	125			140	mA
I_{TSM}	Surge on-state current	10ms half sine wave	125			21	kA
I^2t	I^2t for fusing coordination					2205	$A^2s \cdot 10^3$
V_{TO}	Threshold voltage		125			1.48	V
r_T	On-state slope resistance					0.23	mΩ
V_{TM}	Peak on-state voltage	$I_{TM}=3600A, F=32kN$	25			3.15	V
dv/dt	Critical rate of rise of off-state voltage	$V_{DM}=0.67V_{DRM}$	125			1000	V/μs
di/dt	Critical rate of rise of on-state current	$V_{DM}=67\%V_{DRM}$ to 2500A Gate pulse $t_r \leq 0.5\mu s$ $I_{GM}=1.5A$ Single pulse	125			1200	A/μs
Q_{rr}	Recovery charge	$I_{TM}=1000A, t_p=4000\mu s,$ $di/dt=-20A/\mu s, V_R=100V$	125		1360		μC
t_q	Circuit commutated turn-off time	$I_{TM}=1000A, t_p=4000\mu s, V_R=100V$ $dv/dt=30V/\mu s, di/dt=-20A/\mu s$	125	40		120	μs
I_{GT}	Gate trigger current	$V_A=12V, I_A=1A$	25	40		450	mA
V_{GT}	Gate trigger voltage			0.9		4.5	V
I_H	Holding current			20		800	mA
I_L	Latching current					1000	mA
V_{GD}	Non-trigger gate voltage	$V_{DM}=67\%V_{DRM}$	125			0.3	V
$R_{th(j-c)}$	Thermal resistance Junction to case	double side cooled Clamping force 32kN				0.013	$^{\circ}C/W$
$R_{th(c-h)}$	Thermal resistance case to heat sink					0.0035	
F_m	Mounting force			27		34	kN
T_{vj}	Junction temperature			-40		125	$^{\circ}C$
T_{stg}	Stored temperature			-40		140	$^{\circ}C$
W_t	Weight				820		g
Outline	KT60cT						

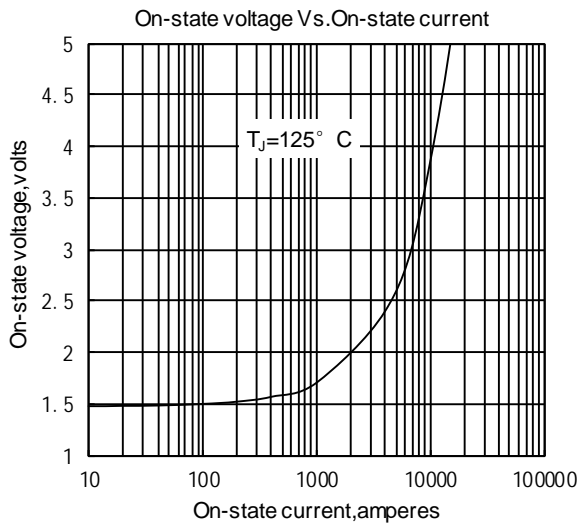


Fig.1

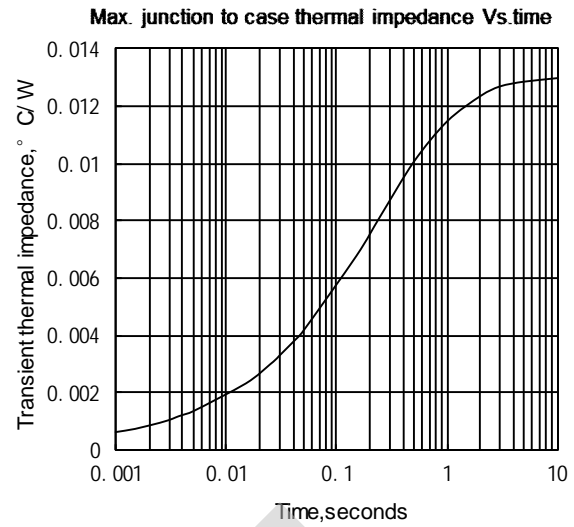


Fig.2

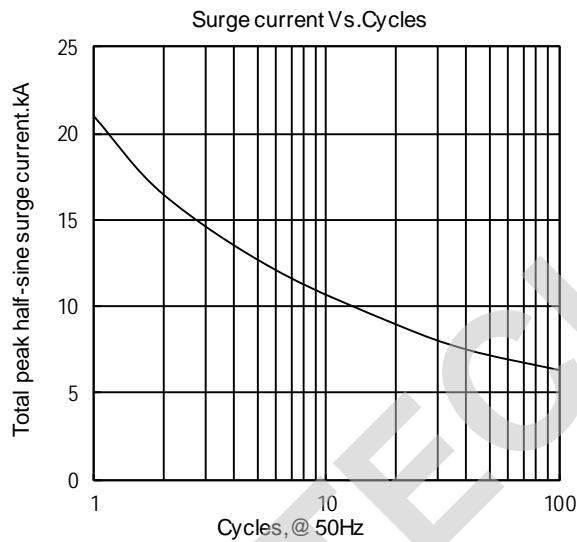


Fig.3

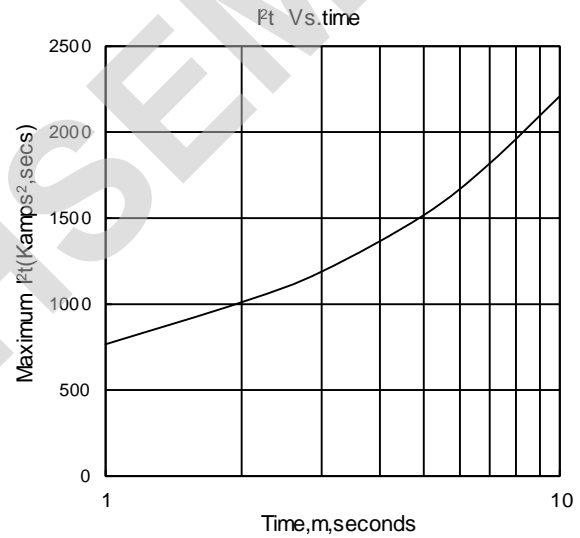


Fig.4

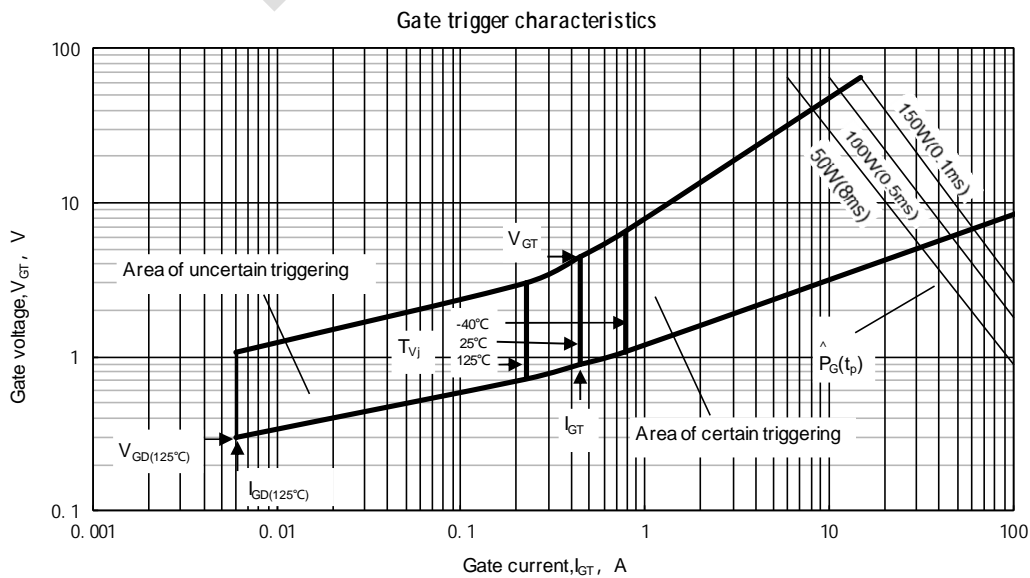
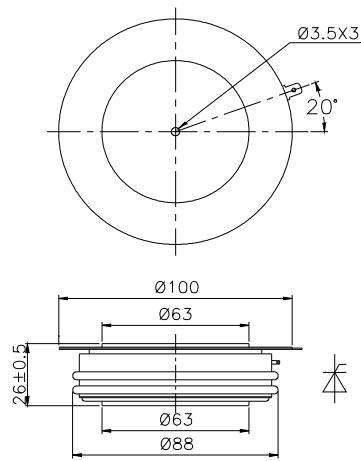


Fig.5

Outline:



TECHSEM reserves the right to change specifications without notice.

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