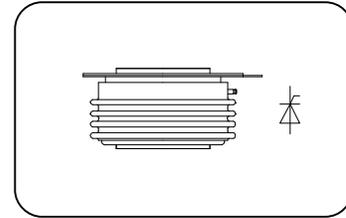




Features:

- n Interdigitated amplifying gates
- n Fast turn-on and high di/dt
- n Low switching losses
- n Short turn-off time
- n Hermetic metal cases with ceramic insulators

$I_{T(AV)}$ **820A**
 V_{DRM}/V_{RRM} **1200~1600V**
 t_q **24~36μs**
 I_{TSM} **10KA**



Typical Applications

- n Inductive heating
- n Electronic welders
- n Self-commutated inverters
- n AC motor speed control
- n General power switching applications

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	T _J (°C)	VALUE			UNIT
				Min	Type	Max	
$I_{T(AV)}$	Mean on-state current	180° half sine wave 50Hz Double side cooled, T _{ns} =55°C	125			820	A
V_{DRM} V_{RRM}	Repetitive peak off-state voltage Repetitive peak reverse voltage	$V_{DRM} & V_{RRM}, tp=10ms$ $V_{DSM} & V_{RSM} = V_{DRM} & V_{RRM} + 100V$	125	1200		1600	V
I_{DRM} I_{RRM}	Repetitive peak off-state current Repetitive peak reverse current	$V_D = V_{DRM}$ $V_R = V_{RRM}$	125			50	mA
I_{TSM}	Surge on-state current	10ms half sine wave	125			10	KA
I^2t	I ² T for fusing coordination	$V_R = 0.6V_{RRM}$				500	A ² s*10 ³
V_{TO}	Threshold voltage		125			1.70	V
r_T	On-state slop resistance					0.48	mW
V_{TM}	Peak on-state voltage	$I_{TM} = 1500A, F = 18KN$	125			2.56	V
dv/dt	Critical rate of rise of off-state voltage	$V_{DM} = 0.67V_{DRM}$	125			200	V/μs
di/dt	Critical rate of rise of on-state current	$V_{DM} = 67\%V_{DRM}$ to 1600A Gate pulse t _r ≤ 0.5 μs I _{GM} = 1.5A	125			1500	A/μs
I_{rm}	Reverse recovery current	$I_{TM} = 800A, tp = 1000μs, di/dt = -20A/μs,$ $V_R = 50V$	125			30	A
t _{rr}	Reverse recovery time					2.2	μs
Q _{rr}	Recovery charge					33	50
t _q	Circuit commutated turn-off time	$I_{TM} = 800A, tp = 1000μs, V_R = 50V$ $dv/dt = 30V/μs, di/dt = -20A/μs$	125	24		36	μs
I_{GT}	Gate trigger current	$V_A = 12V, I_A = 1A$	25	30		250	mA
V_{GT}	Gate trigger voltage			0.8		3.0	V
I_H	Holding current			20		400	mA
V_{GD}	Non-trigger gate voltage	$V_{DM} = 67\%V_{DRM}$	125	0.3			V
R _{th(j-h)}	Thermal resistance Junction to heat sink	At 180° sine double side cooled Clamping force 18KN				0.035	°C/W
F _m	Mounting force			15		20	KN
T _{stg}	Stored temperature			-40		140	°C
W _t	Weight					360	g
Outline	T 9						

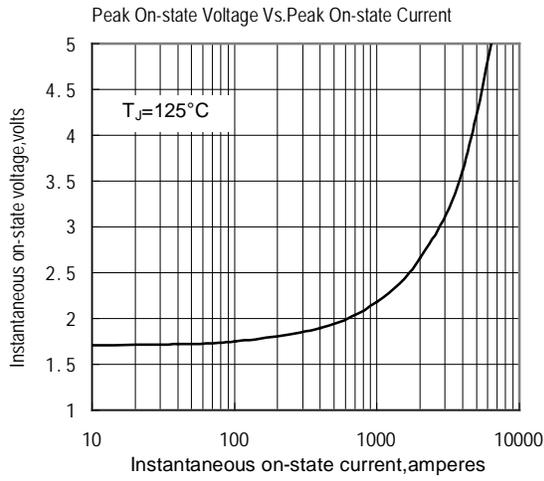


Fig.1

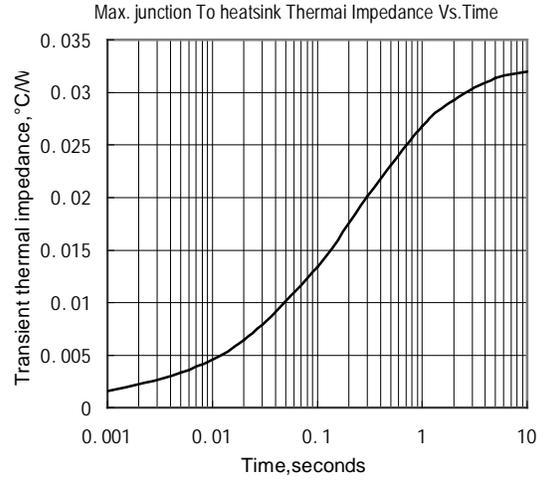


Fig.2

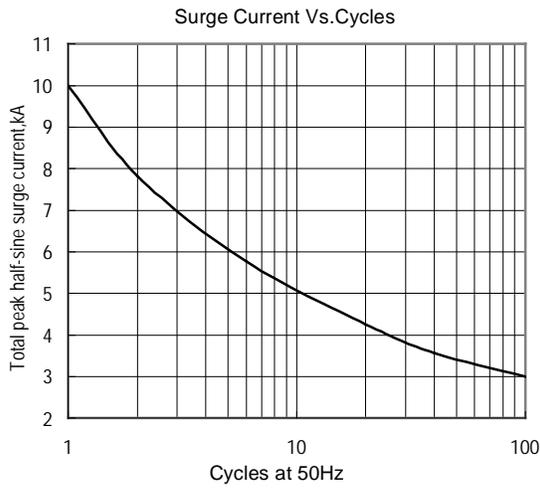


Fig.3

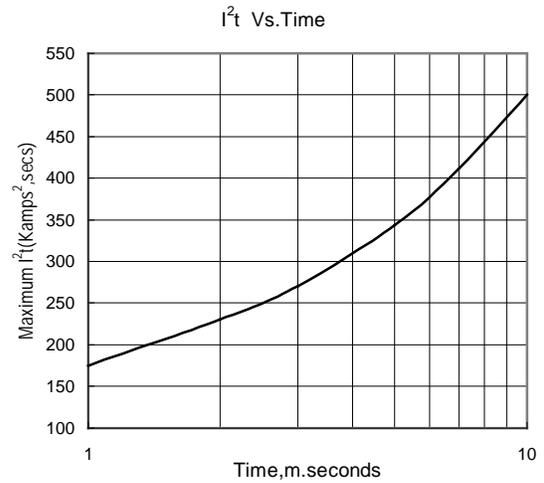


Fig.4

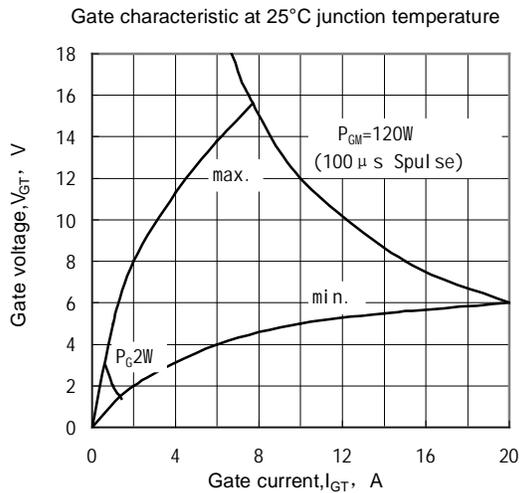


Fig.5

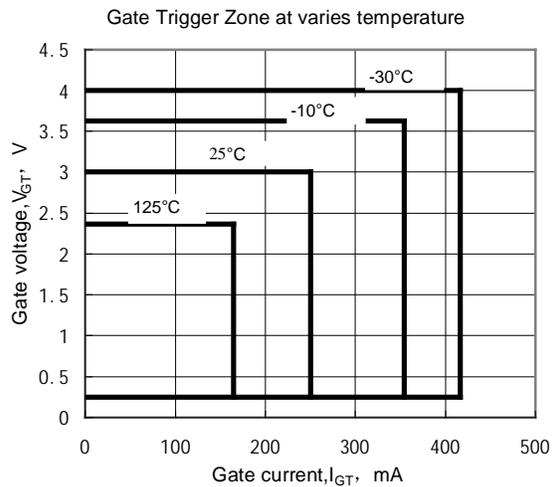
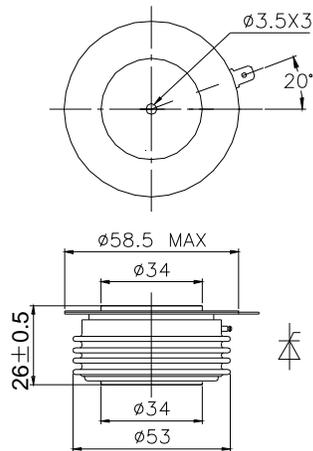


Fig.6

Outline:



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