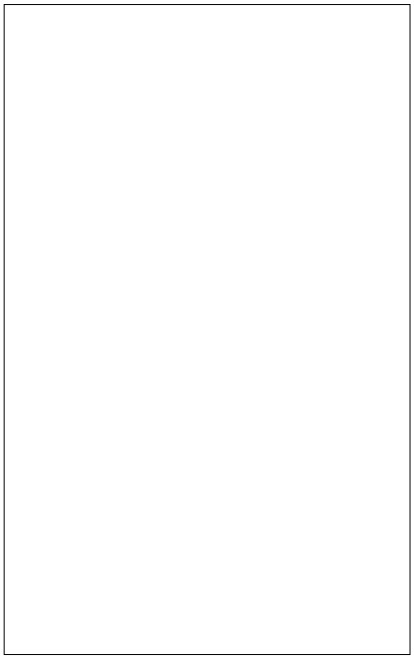
TYN825 25A SCR

Rev.A.1.1



Absolute Maximum Ratings

Parameter	Symbol	Value	Unit
Storage Temperature	T_{stg}	-40 to 150	°C
Operating Junction Temperature	T_j	-40 to 125	°C
Repetitive Peak Off-State Voltage (Tj=125°C)	V_{DRM}	800	V
Repetitive Peak Reverse Voltage (Tj=125°C)	V_{RRM}	800	V
RMS On-State Current (Tc≤102°C)	$I_{T(RMS)}$	16	A
Average On-State Current (Tc≤102°C)	$I_{T(AV)}$	10	A
Non Repetitive Surge Peak On-State Current (tp=10ms, Tj=25°C)	I_{TSM}	200	A
Non Repetitive Surge Peak On-State Current (tp=8.3ms, Tj=25°C)		210	
I²t for Fusing (tp=10ms, Tj=25°C)	I^2t	200	A^2s
Critical Rate of Rise of On-State Current (IG=2×IGT, tr≤100ns, Tj=125°C)	dI/dt	50	A/μs
Peak Gate Current (tp=20μs, Tj=125°C)	I_{GM}	5	A
Average Gate Power Dissipation (Tj=125°C)	$P_{G(AV)}$	1	W

FIG.1:

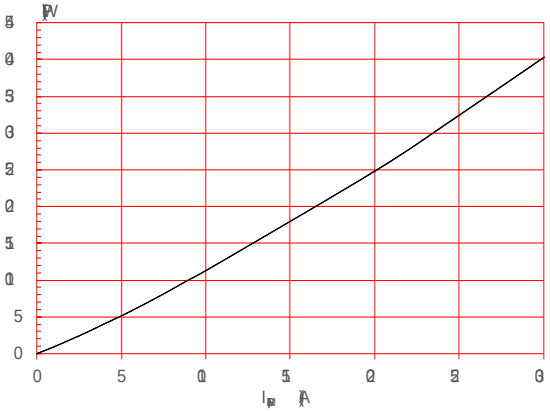


FIG.2:

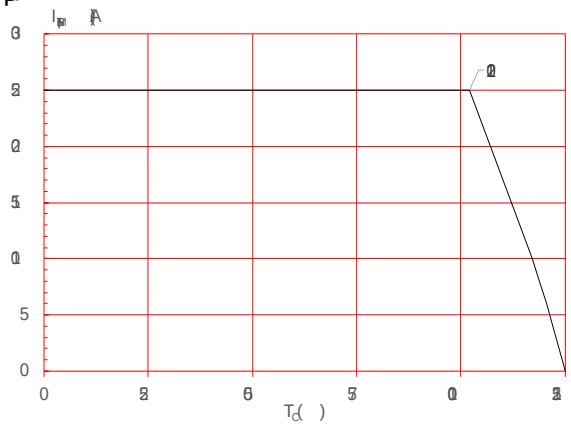
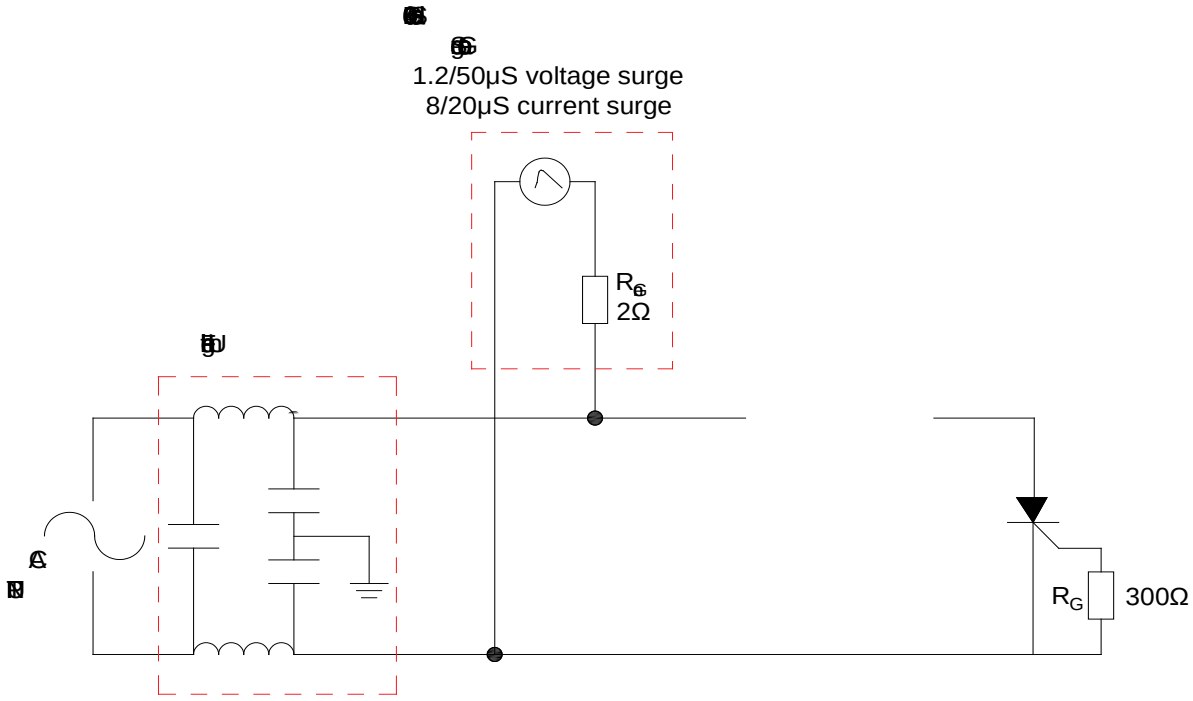


FIG.3:

FIG.4:


1.2/50μS voltage surge
8/20μS current surge
2Ω
300Ω

Order code	Voltage V_{DRM}/V_{RRM} (V)	IGT(mA)	Package	Base qty. (pcs)	Delivery mode
TYN825	800	20	TO-220C	50	Tube

Document Revision History

[illegible]	[illegible]	[illegible]
[illegible]	A [illegible]	[illegible]
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