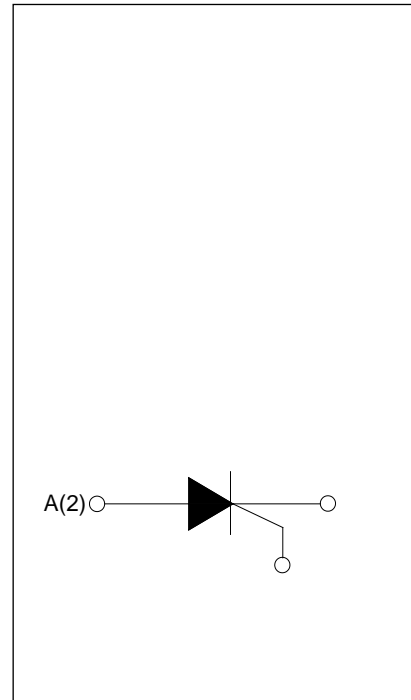


DESCRIPTION:

With high ability to withstand the shock loading of large current, TYN20H-800C of silicon controlled rectifiers provides high dV/dt rate with strong resistance to electromagnetic interference. It is especially recommended for use on solid state relay, motorcycle, power charger, T-tools etc. Package TO-220C is RoHS compliant.

MAIN FEATURES

Symbol	Value	Unit
$I_{T(AV)}$	20	A
V_{DRM}/V_{RRM}	800	V
I_{GT}	~30	mA



ABSOLUTE MAXIMUM RATINGS

Parameter	Symbol	Value	Unit
Storage junction temperature range	T_{stg}	-40-150	
Operating junction temperature range	T_j	-40-150	
Operating temperature range	T_{op}	-40-125	
Repetitive peak off-state voltage ($T_j=25^\circ C$)	V_{DRM}	800	V
Repetitive peak reverse voltage ($T_j=25^\circ C$)	V_{RRM}	800	V
Average on-state current ($T_C 0 121^\circ C$)	$I_{T(AV)}$	20	A
RMS on-state current ($T_C 0 121^\circ C$)	$I_{T(RMS)}$	31	A
Non repetitive surge peak on-state current ($t_p=10ms, T_j=25^\circ C$)	I_{TSM}	300	A
Non repetitive surge peak on-state current ($t_p=8.3ms, T_j=25^\circ C$)		330	
I^2t value for fusing ($t_p=10ms, T_j=25^\circ C$)	I^2t	450	A^2s
Critical rate of rise of on-state current ($I_G=2 \times I_{GT}, f=100Hz, T_j=150^\circ C$)	di/dt	150	A/s

ORDERING INFORMATION

FIG.1: Maximum power dissipation versus RMS on-state current

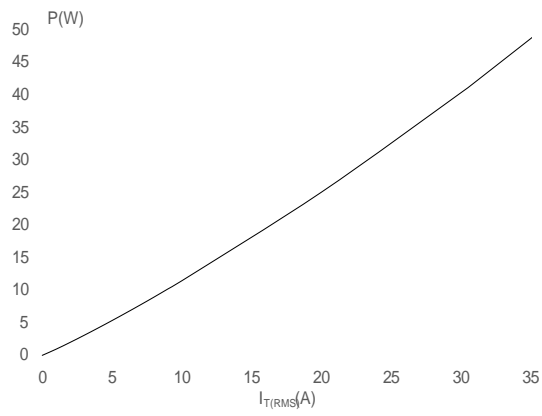
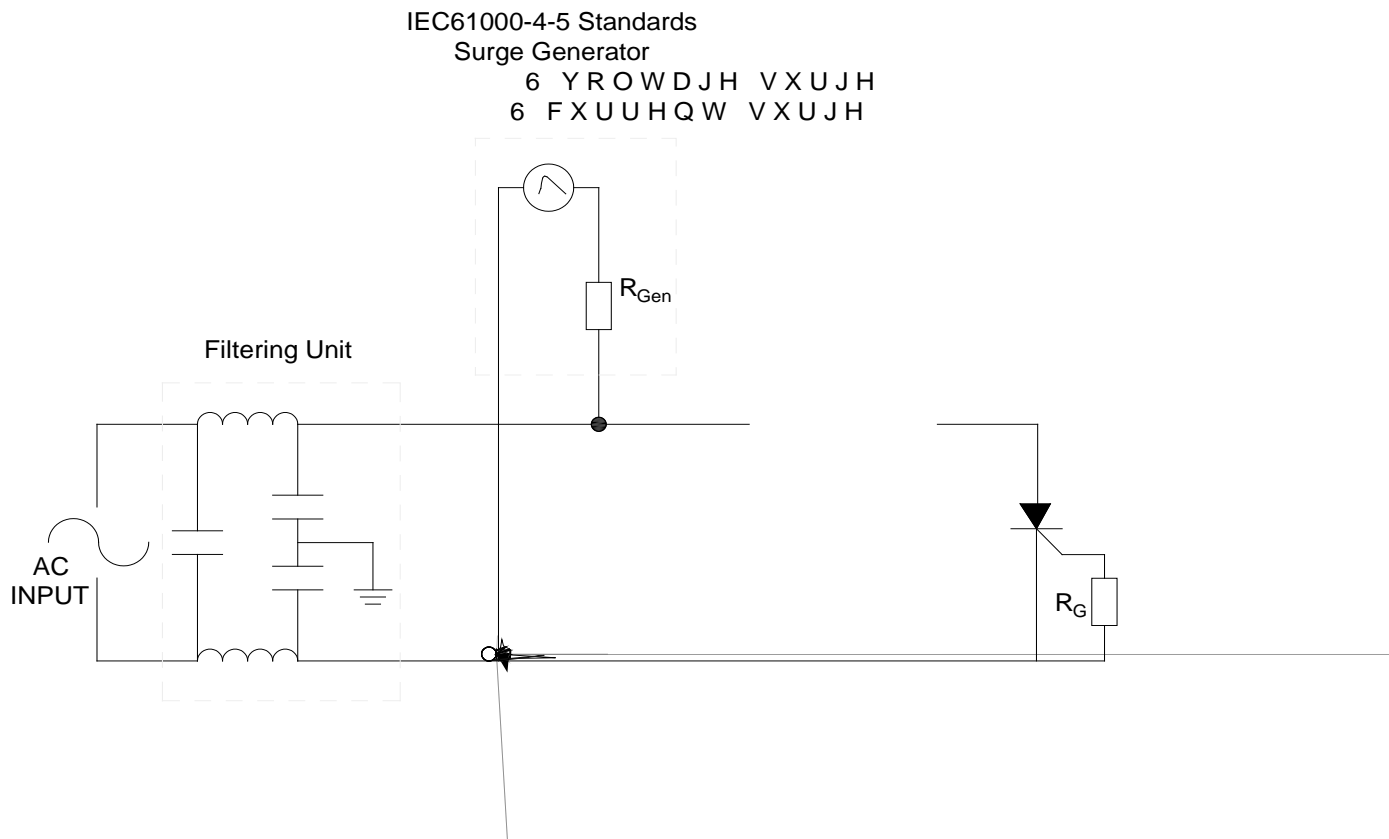


FIG.2: RMS on-state current versus case temperature



FIG.7 ÖTest circuit for inductive and resistive loads to IEC-61000-4-5 standards.



ORDERING INFORMATION

Order code	Voltage V_{DRM}/V_{RRM} (V)	IGT(mA)	Package	Base qty. (pcs)	Delivery mode
TYN20H-800C	800	30	TO-220C	50	Tube

PACKAGE MECHANICAL DATA



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