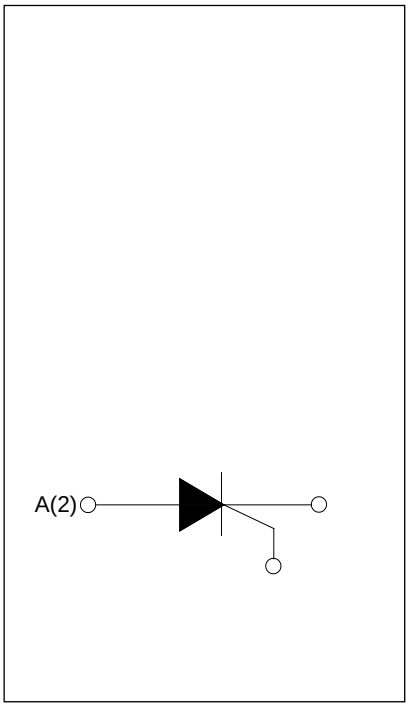
TYN20H-800C 20A SCR Rev.A.1.1

## 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 ) | $V_{DRM}$ | 800 | V |
| Repetitive peak reverse voltage ($T_j$=25 ) | $V_{RRM}$ | 800 | V |
| Average on-state current ($T_C$ 0 121 ) | $I_{T(AV)}$ | 20 | A |
| RMS on-state current ($T_C$ 01 21 ) | $I_{T(RMS)}$ | 31 | A |
| Non repetitive surge peak on-state current ($t_p$=10ms, $T_j$=25 ) | $I_{TSM}$ | 300 | A |
| Non repetitive surge peak on-state current ($t_p$=8.3ms, $T_j$=25 ) | | 330 | |
| $I^2t$ value for fusing ($t_p$=10ms , $T_j$=25 ) | $I^2t$ | 450 | $A^2s$ |
| Critical rate of rise of on-state current ($I_G$=2× $I_{GT}$, f=100Hz , $T_j$=150 ) | dI/dt | 150 | A s |

## ORDERING INFORMATION

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

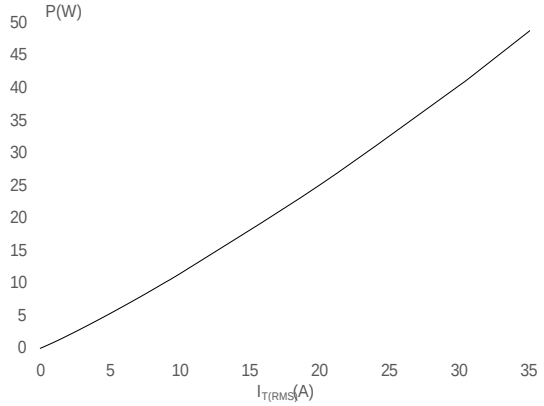
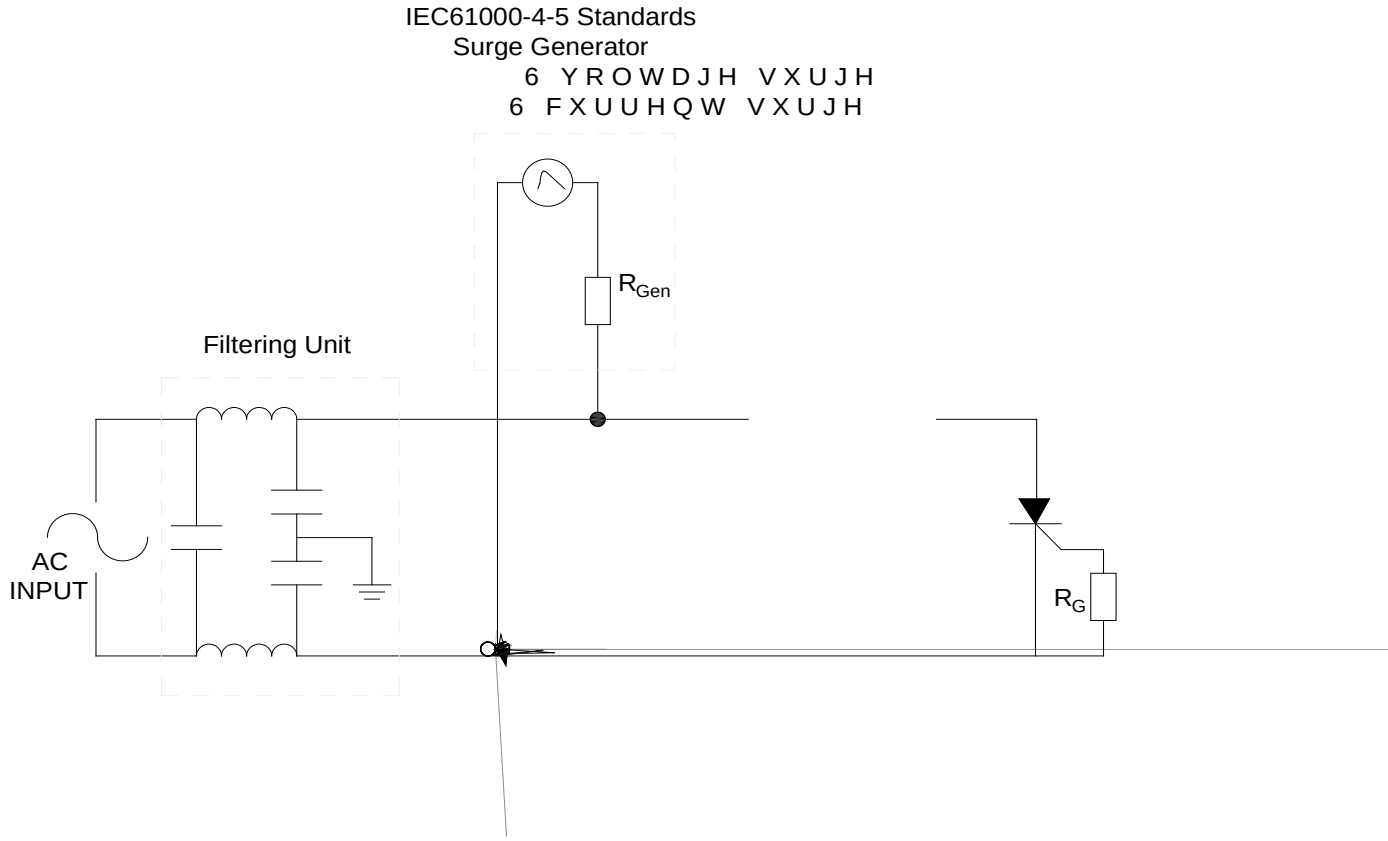



FIG.2: RMS on-state current versus case temperature

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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