

Triacs sensitive gate

TYN610F



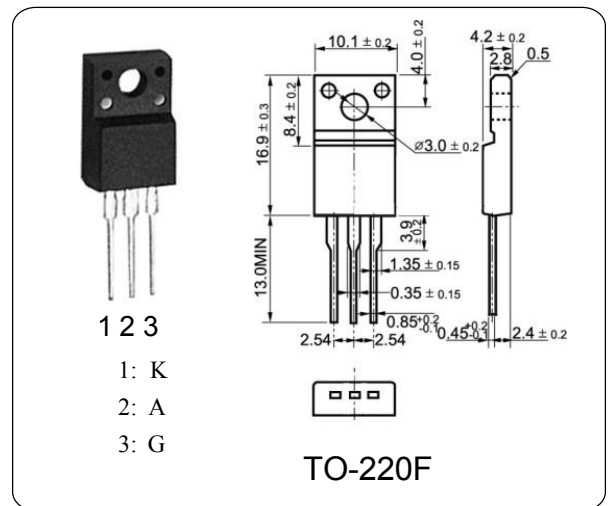
GENERAL DESCRIPTION

The TYNx10 Silicon Controlled Rectifiers is a high performance glass passivated technology.

This general purpose Silicon Controlled Rectifiers is designed for power supply up to 400Hz on resistive or inductive load.

ABSOLUTE MAXIMUM RATINGS (Ta = 25 °C)

Parameter	Symbol	Typ	Unit
Repetitive peak off-state voltages	V_{DRM} V_{RRM}	600	V
Average on-state current	$I_{T(AV)}$	6.4	A
RMS on-state current	$I_{T(RMS)}$	10.0	A
Non-repetitive peak on-state current	I_{TSM}	105	A
Max. Operating Junction Temperature	T_j	110	°C
Storage Temperature	T_{stg}	-45~150	°C



ELECTRICAL CHARACTERISTICS (Ta = 25 °C)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Repetitive peak off-state voltages	V_{DRM} V_{RRM}	$I_D=0.1mA$	600	—	—	V
Average on-state current	$I_{T(AV)}$	half sine wave; $T_{mb} < 103 °C$	—	6.4	—	A
RMS on-state current	$I_{T(RMS)}$	all conduction angles	—	10	—	A
On-state voltage	V_T	$I_T=20A$	—	—	1.6	V
Holding current	I_H	$I_T = 100mA$	—	—	30	mA
Latching current	I_L	$I_{GT} = 1.2 I_{GT}$	—	—	50	mA
Gate trigger current	I_{GT}	$V_D = 12 V; R_L = 33 \Omega$	—	3.0	10	mA
Gate trigger voltage	V_{GT}	$V_D = 12 V; R_L = 33 \Omega$	—	0.8	1.5	V