TIGER ELECTRONIC CO.,LTD

Product specification

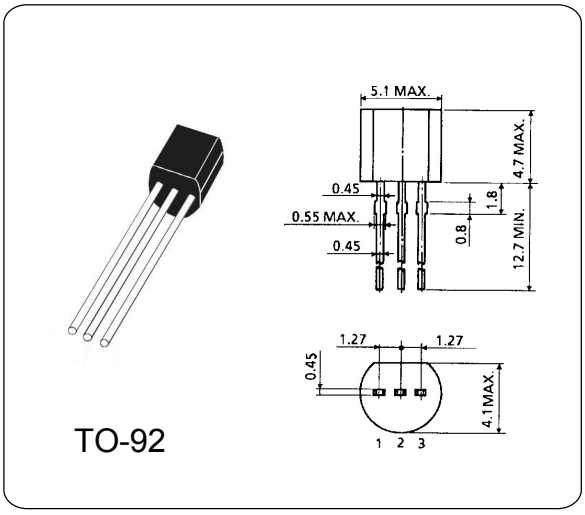
Plastic Silicon Controlled Rectifiers — 03P4M

GENERAL DESCRIPTION

PNPN devices designed for high volume, linepowered consumer applications such as relay and lamp drivers, small motor controls, gate drivers for larger thyristors, and sensing and detection circuits. Supplied in an inexpensive plastic TO-92 package which isreladily adaptable for use in automatic insertion equipment.

ABSOLUTE MAXIMUM RATINGS (Ta = 25 °C)

Parameter	Symbol	Typ	Unit
Repetitive peak off-state voltages	V_{DRM} V_{RRM}	400	V
Average on-state current	$I_{T(AV)}$	0.3	A
RMS on-state current	$I_{T(RMS)}$	0.47	A
Non-repetitive peak on-state current	I_{TSM}	8.0	A
Max. Operating Junction Temperature	T_j	110	°C
Storage Temperature	T_{stg}	-45~150	°C



TO-92

ELECTRICAL CHARACTERISTICS (Ta = 25 °C)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Repetitive peak off-state voltages	V_{DRM} V_{RRM}		400	—	—	V
Average on-state current	$I_{T(AV)}$	half sine wave; T_{mb}< 103 °C	—	0.3	—	A
RMS on-state current	$I_{T(RMS)}$	all conduction angles	—	0.47	—	A
On-state voltage	V_T	I_T=4.0 A	—	—	2.5	V
Holding current	I_H	V_{DM} =24 V; I_{TM} = 4.0A	—	—	5	mA
Latching current	I_L	V_D =6.0 V; I_{GT} = 20 mA	—	0.6	6	mA
Gate trigger current	I_{GT}	V_D =6.0 V; R_L= 100 Ω	—	15	200	uA
Gate trigger voltage	V_{GT}	V_D =6.0 V; R_L= 100 Ω	—	0.5	0.8	V