TIGER ELECTRONIC CO.,LTD

Product specification

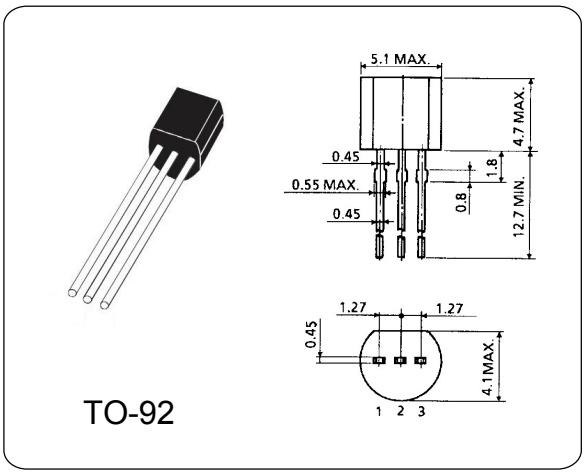
1A TRIACS — Z01XXMA / Z01XXNA

GENERAL DESCRIPTION

The Z01 series is suitable for general purpose AC switching applications. They can be found in applications such as home appliances (electrovalve, pump, door lock, small lamp control), fan speed controllers,...
Different gate current sensitivities are available, allowing optimized performances when controlled directly from microcontrollers.

Tables 1: ABSOLUTE MAXIMUM RATINGS(Ta = 25 °C)

Parameter	Symbol	Typ		Unit
		Z01XXMA	Z01XXNA	
Repetitive peak off-state voltages	V_{DRM} V_{RRM}	600	800	V
RMS on-state current	$I_{T(RMS)}$	1.0		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



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Tables 2: ELECTRICAL CHARACTERISTICS(Ta = 25 °C)

Parameter	Symbol	Test Conditions	Min	Typ		Max	Unit
				Z01XXMA	Z01XXNA		
Repetitive peak off-state voltages	V_{DRM} V_{RRM}		—	600	800	—	V
RMS on-state current	$I_{T(RMS)}$	all conduction angles	—	1.0		—	A
On-state voltage	V_T	I_T=1.4 A	—	—		1.56	V

Tables 3: ELECTRICAL CHARACTERISTICS(Ta = 25 °C)

Parameter	Symbol	Test Conditions	Quadrant		Z01			Unit
					03	07	09	
Gate trigger current	I_{GT}	V_D=12V R_L=30 Ω	I - II - III	MAX	3.0	5.0	10	mA
			IV	MAX	5.0	7.0	10	
Gate trigger voltage	V_{GT}	V_D=12V R_L=30 Ω	ALL	MAX	1.3			V
Latching current	I_L	I_G =1.2 I_{GT}	I - III - IV	MAX	7.0	10	15	mA
			II	MAX	15	20	25	
Holding current	I_H	I_T = 50 mA		MAX	7.0	10	10	mA