



## 1A TRIACS

## Z01XXMA / Z01XXNA

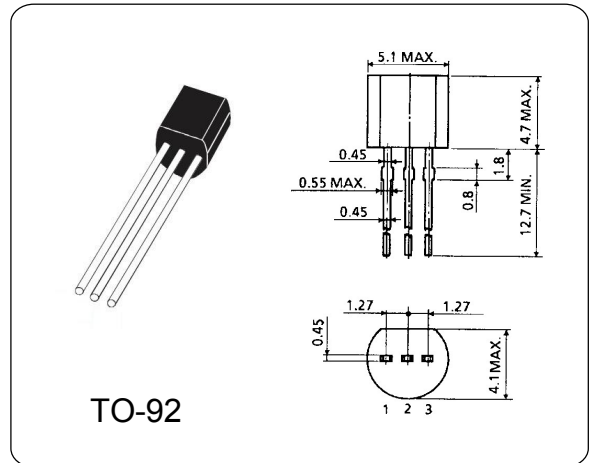
### GENERAL DESCRIPTION

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



**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	$I_{GT}$	$V_D=12V R_L=30 \Omega$	I - II - III	MAX	3.0	5.0	10	mA
			IV	MAX	5.0	7.0	10	
Gate trigger voltage	$V_{GT}$	$V_D=12V R_L=30 \Omega$	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