

TRIAC

Z0607

FEATURES

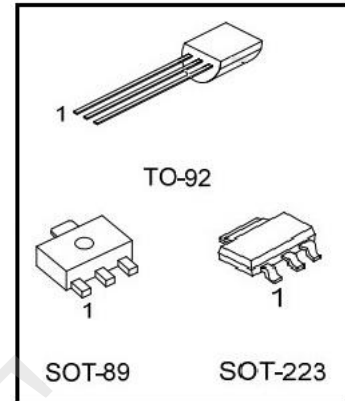
drivers in economical TO-92 、 SOT-89and SOT-223 packages.

The die voltage blocking junctions are glass-passivated to ensure long term reliability and parametric stability.

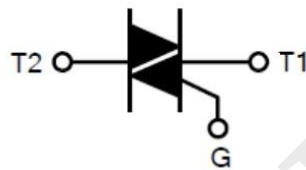
APPLICATIONS

The Z0607 is suitable for low power AC switching applications, such as fan speed, small light controllers...

Thanks to low gate triggering current, it can be directly driven by microcontrollers.



SYMBOL:



Package	Pin assignment		
	1	2	3
TO-92	T1	G	T2
SOT-89	T1	T2	G
SOT-223	T1	T2	G

ABSOLUTE MAXIMUM RATINGS

PARAMETER	SYMBOL	VALUE		UNIT
Repetitive Peak Off-State Voltages	V_{DRM}, V_{RRM}	600		V
RMS on-State Current	$I_{T(RMS)}$	0.8		A
Non-Repetitive Peak On-State Current	I_{TSM}	9		A
I^2t for fusing	I^2t	0.40		A ² s
Repetitive rate of rise of on-state current after triggering	dI_T/dt	I	20	A/uS
		II	20	
		III	20	
		IV	20	
Peak gate current	I_{GM}	1		A
Peak Gate Power	P_{GM}	5		W
Average Gate Power	$P_{G(AV)}$	0.1		W
Operating junction temperature	T_J	-40~+125		°C
Storage Temperature	T_{STG}	-40 ~ +150		°C

ELECTRICAL CHARACTERISTICS (T_J=25°C)

PARAMETER	SYMBOL	TEST CONDITIONS		MIN	MAX	UNITS
Peak Repetitive Forward or Reverse Blocking Current	I_{DRM} I_{RRM}	V_{AK} = Rated V_{DRM} or V_{RRM} ;			10	uA
Gate Trigger Current	I_{GT}	$V_D=12V$, $R_L=33\ \Omega$	I		5.0	mA
			II		5.0	
			III		5.0	
			IV		7.0	
Gate Trigger Voltage	V_{GT}	$V_D=12V$, $R_L=33\ \Omega$			1.3	V
Peak Forward On-State Voltage	V_{TM}	$I_T=1.1A$,			1.5	V
Latch Current	I_L	$I_G=1.2I_{GT}$	I		10	mA
			II		20	
			III		10	
			IV		10	
Holding Current	I_H	$I_T=0.1A$,			5	mA
Gate Non-Trigger Voltage	V_{GD}	$V_D=V_{DRM}$		0.2		V
Critical Rate of Rise of Off-State Voltage	dV/dt	$V_D=67\%V_{DRM}$, $R_{GK}=1k\Omega$,		10		V/ μs