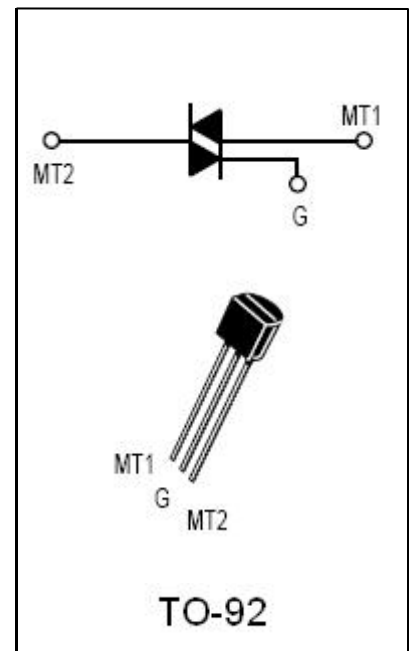


FEATURES

- With TO-92 package
- Glass passivated, sensitive gate triacs in a plastic envelope
- Intended for use in general purpose bidirectional switching and phase control applications.
- These devices are intended to be interfaced directly to microcontrollers, logic intergrated circuits and other low power gate trigger circuit.
- Minimum Lot-to-Lot variations for robust device performance and reliable operation


ABSOLUTE MAXIMUM RATINGS($T_a=25^{\circ}\text{C}$)

SYMBOL	PARAMETER	MIN	UNIT
V_{DRM}	Repetitive peak off-state voltage	500	V
V_{RRM}	Repetitive peak off-state voltage	500	V
$I_{\text{T(RMS)}}$	RMS on-state current (full sine wave) $T_{\text{lead}} \leq 51^{\circ}\text{C}$	1	A
I_{TSM}	Non-repetitive peak on-state current	16	A
P_{GM}	Peak gate power dissipation	5	W
$P_{\text{G(AV)}}$	Average gate power dissipation	0.5	W
T_j	Operating junction temperature	110	$^{\circ}\text{C}$
T_{stg}	Storage temperature	-40~150	$^{\circ}\text{C}$

ELECTRICAL CHARACTERISTICS ($T_c=25^{\circ}\text{C}$ unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V_{DRM}	Repetitive peak off-state voltage	$I_D=1\text{mA}$	500		V
V_{RRM}	Repetitive peak reverse voltage	$I_D=0.5\text{mA}$	500		V
I_D	Off-state leakage current	$V_D=V_{\text{DRM(max)}}$, $T_j=125^{\circ}\text{C}$		0.5	mA
I_{GT}	Gate trigger current	$V_D=12\text{V}$; $I_T=0.1\text{A}$	I	3	mA
			II	3	
			III	3	
			IV	8	
V_{TM}	On-state voltage	$I_T=2.0\text{A}$		1.5	V
I_H	Holding current	$I_{\text{GT}}=0.1\text{A}$, $V_D=12\text{V}$		5	mA
V_{GT}	Gate trigger voltage	$V_D=12\text{V}$; $R_L=100\ \Omega$ all quadrant		1.5	V

NOTICE:

ISC reserves the rights to make changes of the content herein the datasheet at any time without notification. The information contained herein is presented only as a guide for the applications of our products.

ISC products are intended for usage in general electronic equipment. The products are not designed for use in equipment which require specialized quality and/or reliability, or in equipment which could have applications in hazardous environments, aerospace industry, or medical field. Please contact us if you intend our products to be used in these special applications.

ISC makes no warranty or guarantee regarding the suitability of its products for any particular purpose, nor does ISC assume any liability arising from the application or use of any products, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages.

