

isc Triacs

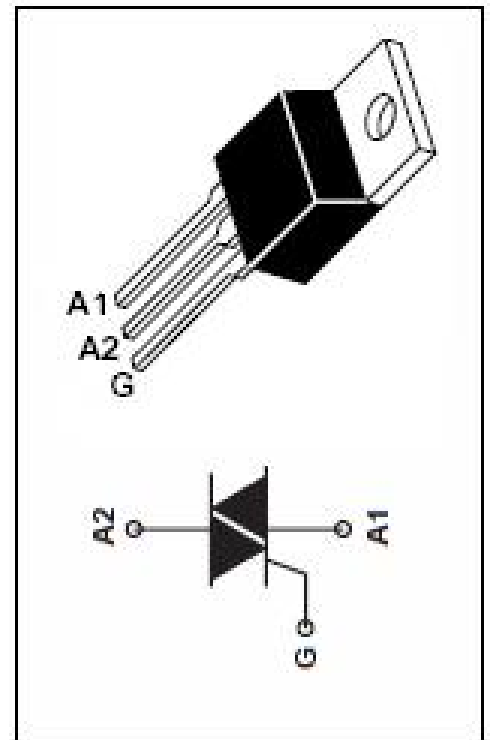
TIC226series

DESCRIPTION

- 8A RMS ,70A Peak
- Glass passivated Wafer
- 400V to 800V off-state Voltage
- Max I_{GT} of 50mA(Quadrants 1-3)
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

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

SYMBOL	PARAMETER		VALUE	UNIT
V_{DRM}	Repetitive peakoff-state voltage	TIC226D	400	V
		TIC226M	600	
		TIC226S	700	
		TIC226N	800	
V_{RRM}	Repetitive peakreverse voltage	TIC226D	400	V
		TIC226M	600	
		TIC226S	700	
		TIC226N	800	
$I_{T(RMS)}$	RMS on-state current (full sine wave) $T_C=85^{\circ}\text{C}$		8	A
I_{TSM}	Non-repetitive peak on-state current		70	A
P_{GM}	Peak gate power $P_W \leq 200 \mu s$		2.2	W
$P_{G(AV)}$	Average gate power		0.9	W
T_j	Operating Junction temperature		110	$^{\circ}\text{C}$
T_{stg}	Storage temperature		-40 ~+125	$^{\circ}\text{C}$



isc Triacs

TIC226series

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	TYP	MAX	UNIT
$R_{th\ j-c}$	Thermal Resistance, Junction to Case		1.8	$^{\circ}C/W$
$R_{th\ j-a}$	Thermal Resistance, Junction to Ambient		62.5	$^{\circ}C/W$

ELECTRICAL CHARACTERISTICS

 $T_c=25^{\circ}C$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	TYP	MAX	UNIT
I_{RRM}	Repetitive peak reverse current	$V_{RM}=V_{RRM}$, $V_{RM}=V_{RRM}$, $T_j=110^{\circ}C$		0.4 2.0	mA
I_{DRM}	Repetitive peak off-state current	$V_{DM}=V_{DRM}$, $V_{DM}=V_{DRM}$, $T_j=110^{\circ}C$		0.4 2.0	mA
I_{GT}	Gate trigger current	$V_{supply} = 12\ V\uparrow$; $R_L = 10\ \Omega$; $t_{p(g)} > 20\ \mu s$	2	50	mA
			12	50	
			9	50	
			20		
I_H	Holding current	$V_{supply} = 12\ V\uparrow$, $I_G = 0$ initial $I_{TM}=100mA$		30	mA
V_{GT}	Gate trigger voltageall quadrant	$V_{supply} = 12\ V\uparrow$; $R_L = 10\ \Omega$; $t_{p(g)} > 20\ \mu s$		2	V
V_{TM}	On-state voltage	$I_T = 12A$; $I_G = 50mA$		2.1	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.