

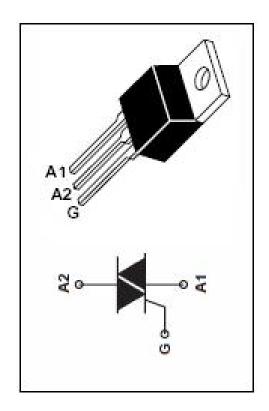
isc Triacs TIC246series

DESCRIPTION

- · High current Triacs
- 16A RMS ,125A Peak Current
- 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(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT		
V_{DRM}	Repetitive peakoff-state voltage	TIC246D	400	V	
		TIC246M	600		
		TIC246S	700	V	
		TIC246N	800		
V_{RRM}	Repetitive peakreverse voltage	TIC246D	400	V	
		TIC246M	600		
		TIC246S	700	V	
		TIC246N	800		
I _{T(RMS)}	RMS on-state current (wave) T_C =70 $^{\circ}$ C	16	Α		
I _{TSM}	Non-repetitive peak on-stat	125	Α		
T _j	Operating Junction tempera	110	$^{\circ}$		
T _{stg}	Storage temperature	-40 ~+125	$^{\circ}$		





isc Triacs TIC246series

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	TYP	MAX	UNIT
R _{th j-c}	Thermal Resistance,Junction to Case		1.9	°C/W
R _{th j-a}	Thermal Resistance,Junction to Ambient		62.5	°C/W

ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	0	CONDITIONS		MAX	UNIT
I _{RRM}	Repetitive peak reverse current		V _{RM} =V _{RRM} , V _{RM} =V _{RRM} , Tj=110°C		0.4 2.0	mA
I _{DRM}	Repetitive peak off-state current		V _{DM} =V _{DRM} , V _{DM} =V _{DRM} , Tj=110°C		0.4 2.0	mA
І _{СТ}	Gate trigger current	I	V_{supply} = 12 V†; R _L = 10 Ω; $t_{p(g)}$ >20 μ s	12	50	mA
		II		19	50	
		III		16	50	
		IV		34		
Ін	Holding current		$V_{\text{supply}} = 12 \text{ V}^{\dagger}, I_{\text{G}} = 0 \text{ initial } I_{\text{TM}} = 100 \text{mA}$		40	mA
V _{GT}	Gate trigger voltage	I	V _{supply} = 12 V†; R _L = 10 Ω; t _{p(g)} >20 μ s		2	V
		II			2	
		III			2	
		IV			2	
V_{TM}	On-state voltage		I _T = 22.5A; I _G = 50mA		1.7	V



isc Triacs TIC246series



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.