

isc Thyristors

TYN612TRG

TO-220

DESCRIPTION

- With TO-220 packaging
- · High heat dissipation and durability
- Thermowatt construction for low thermal
- Glass passivated junctions and center gate fire for greater parameter uniformity and stability
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

Switching applications

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER			MIN	UNIT			
V _{DRM}	Repetitive peak off-state voltage			600	V			
V _{RRM}	Repetitive peak reverse voltage			600	V			
I _{T(RMS)}	RMS on-state current	Tc=105 ℃	12	А				
I _{TSM}	Surge non-repetitive on-state current (1/2 cycle,sine wave;Tc=25℃)		50Hz 60Hz	145 140	A			
$P_{G(AV)}$	Average gate power dissipation	N		1.0	W			
Tj	Operating junction temperature	9		-40~125	°C			
T _{stg}	Storage temperature			-40~150	°C			

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

SYMBOL	PARAMETER	CONDITIONS		MIN	МАХ	UNIT
I _{RRM}	Repetitive peak reverse current	V _{RM} =V _{RRM}	Tj =25 ℃		0.005	mA
I _{DRM}	Repetitive peak off-state current	V _{DM} =V _{DRM}	Tj =125 ℃		2.0	
V _{TM}	On-state voltage	I _{TM} = 24A			1.6	V
I _{GT}	Gate-trigger current	V _D = 12 V; RL=33 Ω		0.5	5	mA
V _{GT}	Gate-trigger voltage	V _D = 12 V; RL=33 Ω			1.3	V
R _{th(j-c)}	Thermal resistance	Junction to case			1.3	°C/W

isc website: www.iscsemi.com

isc & iscsemi is registered trademark

isc Thyristors

TYN612TRG



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.

isc website: www.iscsemi.com

isc & iscsemi is registered trademark