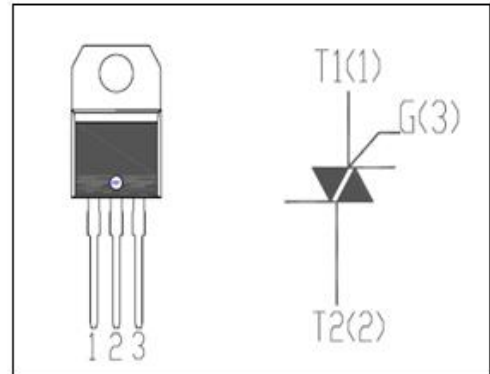


**isc Thyristors**
**T435-600T**
**DESCRIPTION**

- With TO-220 packaging
- Operating in 3 quadrants
- High commutation capability
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

**APPLICATIONS**

- Solid state relays; heating and cooking appliances
- Switching applications


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

SYMBOL	PARAMETER	MAX	UNIT
$V_{\text{DRM}}$	Repetitive peak off-state voltage	600	V
$V_{\text{RRM}}$	Repetitive peak reverse voltage	600	V
$I_{\text{T(RSM)}}$	Average on-state current	4	A
$I_{\text{TSM}}$	Surge non-repetitive on-state current @50Hz, 20ms	30	A
$P_{\text{G(AV)}}$	Average gate power dissipation	1	W
$T_j$	Operating junction temperature	-40~125	$^{\circ}\text{C}$
$T_{\text{stg}}$	Storage temperature	-40~150	$^{\circ}\text{C}$

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

SYMBOL	PARAMETER	CONDITIONS		MIN	MAX	UNIT
$I_{\text{RRM}}$	Repetitive peak reverse current	$V_R=V_{\text{RRM}};$ $V_D=V_{\text{DRM}}$	$T_j=25^{\circ}\text{C}$ $T_j=125^{\circ}\text{C}$		0.005 1	mA
$I_{\text{DRM}}$	Repetitive peak off-state current					
$V_{\text{TM}}$	On-state voltage	$I_T= 5.5\text{A}; t_p=380\mu\text{s}$			1.6	V
$I_{\text{GT}}$	Gate-trigger current	$V_D = 12\text{V}; R_G=30 \Omega$	I		35	mA
			II		35	
			III		35	
$V_{\text{GT}}$	Gate-trigger voltage	$V_D = 12\text{V}; R_G=30 \Omega$			1.3	V
$R_{\text{th(j-c)}}$	Junction to case				2.6	$^{\circ}\text{C/W}$

**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.