

isc Thyristors

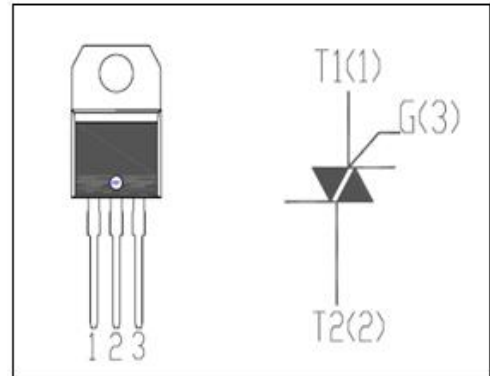
T435-600T

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_{DRM}	Repetitive peak off-state voltage	600	V
V_{RRM}	Repetitive peak reverse voltage	600	V
$I_{\text{T(RSM)}}$	Average on-state current	4	A
I_{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_{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_{RRM}	Repetitive peak reverse current	$V_R=V_{\text{RRM}};$ $V_D=V_{\text{DRM}}$	$T_j=25^{\circ}\text{C}$		0.005	mA
I_{DRM}	Repetitive peak off-state current		$T_j=125^{\circ}\text{C}$		1	
V_{TM}	On-state voltage	$I_T=5.5\text{A}; t_p=380\mu\text{s}$			1.6	V
I_{GT}	Gate-trigger current	$V_D=12\text{V}; R_G=30\Omega$	I		35	mA
			II		35	
			III		35	
V_{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	$^{\circ}\text{C/W}$

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