

isc Thyristors

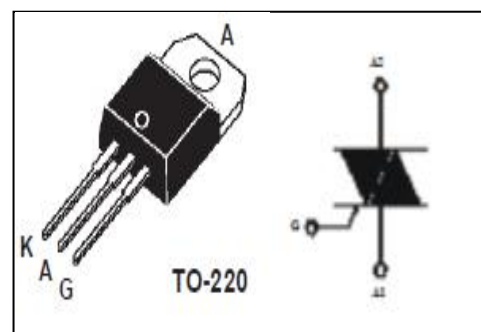
Q6015L5

DESCRIPTION

- With TO-220ins packaging
- A triac is a solid state silicon
- AC switch which may be gate triggered from an off-state to an on-state for either polarity of applied voltage
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Switching applications

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

SYMBOL	PARAMETER		MIN	UNIT
V_{DRM}	Repetitive peak off-state voltage		600	V
V_{RRM}	Repetitive peak reverse voltage		600	V
$I_{\text{T(RSM)}}$	RMS on-state current		15	A
I_{TSM}	Surge non-repetitive on-state current	50HZ 60HZ	167 200	A
$P_{\text{G(AV)}}$	Average gate power dissipation		0.5	W
T_j	Operating junction temperature		-40~125	$^{\circ}\text{C}$
T_{stg}	Storage temperature		-40~125	$^{\circ}\text{C}$

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

SYMBOL	PARAMETER	CONDITIONS		MIN	MAX	UNIT
I_{RRM}	Repetitive peak reverse current	$V_R=V_{\text{RRM}}$ Rated; $V_D=V_{\text{DRM}}$ Rated;	$T_j=25^{\circ}\text{C}$		0.05	mA
I_{DRM}	Repetitive peak off-state current		$T_j=100^{\circ}\text{C}$ $T_j=125^{\circ}\text{C}$		0.5 2	
V_{TM}	On-state voltage				1.6	V
I_{GT}	Gate-trigger current	$V_D=12\text{V}; R_L=60\ \Omega$;	I		50	mA
			II		50	
			III		50	
V_{GT}	Gate-trigger voltage	$V_D=12\text{V}; R_L=60\ \Omega$;			2.5	V

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