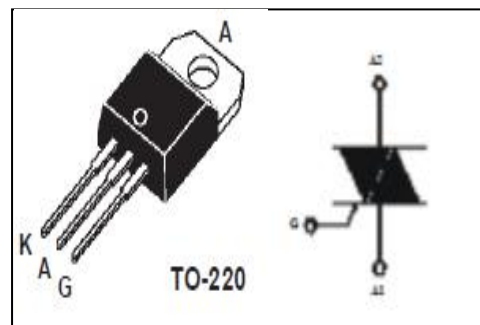


isc Thyristors

Q6025L6

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 @ $T_c=100^{\circ}\text{C}$		20	A
I_{TSM}	Surge non-repetitive on-state current	50HZ 60HZ	208 250	A
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 current	peak	reverse	V _R =V _{RRM} Rated; V _D =V _{DRM} Rated;	Tj=25℃ Tj=100℃ Tj=125℃		0.05	mA
I _{DRM}	Repetitive current	peak	off-state			0.5 2		
V _{TM}	On-state voltage						1.8	V
I _{GT}	Gate-trigger current			V _D =12V;RL=30 Ω ;	I		80	mA
					II		80	
					III		80	
V _{GT}	Gate-trigger voltage			V _D =12V;RL=30 Ω ;			2.5	V

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