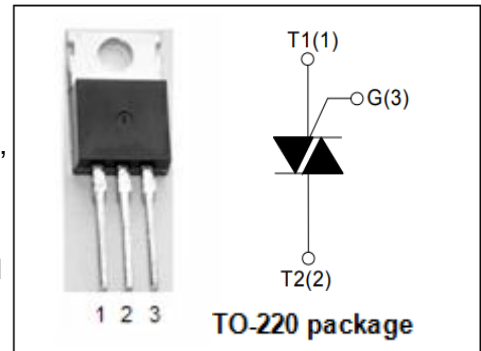


**isc Triacs**
**HQ6025RH5**
**FEATURES**

- With TO-220AB non insulated package
- Suitable for general purpose AC switching. Which can be used as an ON/OFF function in applications such as static relays, heating regulation, induction motor starting circuits. Or for phase control operation in light dimmers, motor speed controllers etc.
- Minimum Lot-to-Lot variations for robust device performance and reliable operation


**ABSOLUTE MAXIMUM RATINGS(Ta=25°C)**

SYMBOL	PARAMETER	MIN	UNIT	
$V_{DRM}$	Repetitive peak off-state voltage	600	V	
$V_{RRM}$	Repetitive peak off-state voltage	600	V	
$I_{T(RMS)}$	RMS on-state current (full sine wave) $T_c=102^\circ\text{C}$	25	A	
$I_{TSM}$	Non-repetitive peak on-state current $t_p=20\text{ms}$ , $T_j=25^\circ\text{C}$	$f=50\text{Hz}$	250	A
		$f=60\text{Hz}$	300	
$T_j$	Operating junction temperature	-40~150	$^\circ\text{C}$	
$T_{stg}$	Storage temperature	-40~150	$^\circ\text{C}$	
$R_{th(j-c)}$	Thermal resistance, junction to case	0.86	$^\circ\text{C/W}$	
$R_{th(j-a)}$	Thermal resistance, junction to ambient	45	$^\circ\text{C/W}$	

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

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
$I_{RRM}$	Repetitive peak reverse current	$V_R=V_{RRM}$ , $V_R=V_{RRM}$ , $T_j=125^\circ\text{C}$	5 6000	$\mu\text{A}$
$I_{DRM}$	Repetitive peak off-state current	$V_D=V_{DRM}$ , $V_D=V_{DRM}$ , $T_j=125^\circ\text{C}$	5 6000	$\mu\text{A}$
$I_{GT}$	Gate trigger current	I	50	mA
		II	50	
		III	50	
$I_H$	Holding current	$I_{GT}=400\text{mA}$ , Gate Open	80	mA
$V_{GT}$	Gate trigger voltage all quadrant	$V_D=12\text{V}$ ; $R_L=60\Omega$	1.3	V
$V_{TM}$	On-state voltage	$I_T=35.4\text{A}$ ; $t_p=380\mu\text{s}$	1.4	V

**NOTICE:**

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