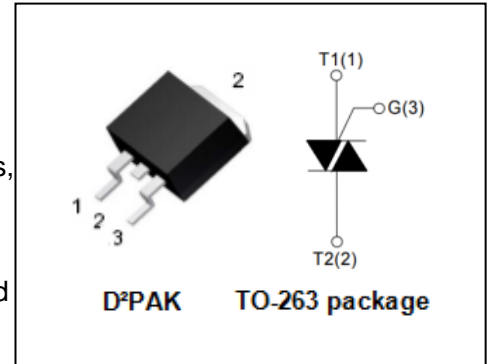


**isc Triacs**
**HQ6025NH5**
**FEATURES**

- With TO-263 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 <sub>DRM</sub>	Repetitive peak off-state voltage	600	V	
V <sub>RPM</sub>	Repetitive peak off-state voltage	600	V	
I <sub>T(RMS)</sub>	RMS on-state current (full sine wave) T <sub>c</sub> =102°C	25	A	
I <sub>TSM</sub>	Non-repetitive peak on-state current t <sub>p</sub> =20ms, T <sub>j</sub> =25°C	f=50Hz	250	A
		f=60Hz	300	
T <sub>j</sub>	Operating junction temperature	-40~150	°C	
T <sub>stg</sub>	Storage temperature	-40~150	°C	
R <sub>th(j-c)</sub>	Thermal resistance, junction to case	0.86	°C/W	
R <sub>th(j-a)</sub>	Thermal resistance, junction to ambient	45	°C/W	

**ELECTRICAL CHARACTERISTICS (T<sub>c</sub>=25°C unless otherwise specified)**

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT	
I <sub>RRM</sub>	Repetitive peak reverse current	V <sub>R</sub> =V <sub>RRM</sub> , V <sub>R</sub> =V <sub>RRM</sub> , T <sub>j</sub> =125°C	5 6000	uA	
I <sub>DRM</sub>	Repetitive peak off-state current	V <sub>D</sub> =V <sub>DRM</sub> , V <sub>D</sub> =V <sub>DRM</sub> , T <sub>j</sub> =125°C	5 6000	uA	
I <sub>GT</sub>	Gate trigger current	I	V <sub>D</sub> =12V; R <sub>L</sub> = 60Ω	50	mA
		II		50	
		III		50	
I <sub>H</sub>	Holding current	I <sub>GT</sub> = 400mA, Gate Open	80	mA	
V <sub>GT</sub>	Gate trigger voltage all quadrant	V <sub>D</sub> =12V; R <sub>L</sub> = 60Ω	1.3	V	
V <sub>TM</sub>	On-state voltage	I <sub>T</sub> = 35.4A; t <sub>p</sub> = 380μ s	1.4	V	

**NOTICE:**

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