

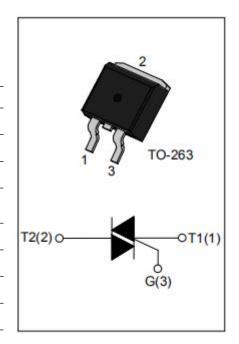
isc Triacs Q8015N5

#### **FEATURES**

- With TO-263(D2PAK) package
- Suitables 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℃)

SYMBOL	PARAMETER	MIN	UNIT
$V_{DRM}$	Repetitive peak off-state voltage	800	V
$V_{RRM}$	Repetitive peak off-state voltage	800	V
I <sub>T(RMS)</sub>	RMS on-state current (full sine wave)	15	Α
I <sub>TSM</sub>	Non-repetitive peak on-state current t <sub>p</sub> =20ms	160	А
Tj	Operating junction temperature	-40~125	$^{\circ}$
T <sub>stg</sub>	Storage temperature	-40~150	$^{\circ}$
R <sub>th(j-c)</sub>	Thermal resistance, junction to case	2.5	°C/W
R <sub>th(j-a)</sub>	Thermal resistance, junction to ambient	45	°C/W



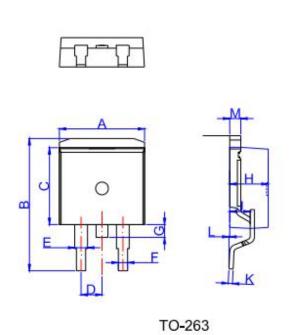
# ELECTRICAL CHARACTERISTICS (Tc=25°C unless otherwise specified)

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> , Tj=125℃	0.1 3	mA
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> , Tj=125 °C	0.1 3	mA
I <sub>GT</sub>	I			50	
	Gate trigger current	II	V <sub>D</sub> =12V; R <sub>L</sub> = 33 Ω	50	mA
		III		50	
I <sub>H</sub>	Holding current		I <sub>GT</sub> = 100mA, Gate Open	70	mA
V <sub>GT</sub>	Gate trigger voltage all quadrant		V <sub>D</sub> =12V; R <sub>L</sub> = 33 Ω	2.5	V
V <sub>TM</sub>	On-state voltage		I <sub>T</sub> = 22.5A; t <sub>p</sub> = 380 μ s	1.6	V



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#### **PACKAGE MECHANICAL DATA**



Ref.	Dimensions							
	Millimeters			Inches				
	Min.	Тур.	Max.	Min.	Тур.	Max.		
Α	9.90	7	10.20	0.390	155	0.402		
В	14.70		15.80	0.579		0.622		
С	9.4		9.6	0.37		0.378		
D		2.54			0.100			
Е	1.20		1.40	0.047		0.055		
F	0.75		0,85	0.029	50 5 57 1	0.033		
G			1.75			0.069		
н	4.40		4.70	0.173		0.185		
J	2.30		2.70	0.091		0.106		
K	0.38		0.55	0.015		0.022		
L	0	0.10	0.25	0	0.004	0.010		
M	1.25		1.35	0.049		0.053		

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