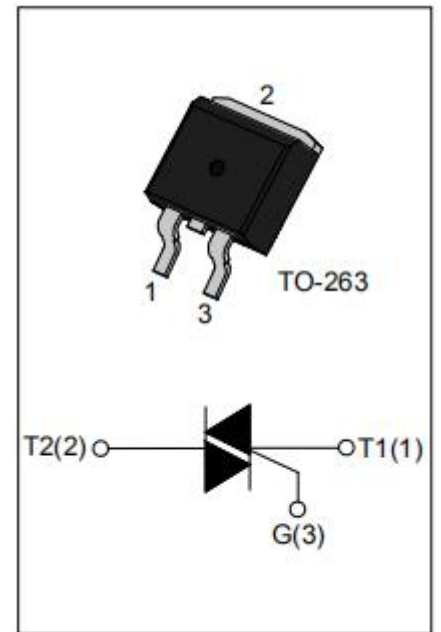


isc Triacs
Q8015N5
FEATURES

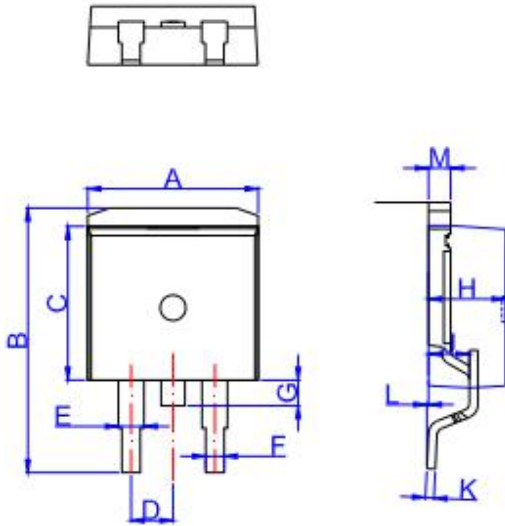
- With TO-263(D²PAK) package
- Suitable for general purpose AC switching. Which can be used as an ON/OFF function in applications such as static relays, heating regulation, induction motor starting circuits. Or for phase control operation in light dimmers, motor speed controllers etc.
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

ABSOLUTE MAXIMUM RATINGS(T_a=25°C)

SYMBOL	PARAMETER	MIN	UNIT
V _{DRM}	Repetitive peak off-state voltage	800	V
V _{RRM}	Repetitive peak off-state voltage	800	V
I _{T(RMS)}	RMS on-state current (full sine wave)	15	A
I _{TSM}	Non-repetitive peak on-state current t _p =20ms	160	A
T _j	Operating junction temperature	-40~125	°C
T _{stg}	Storage temperature	-40~150	°C
R _{th(j-c)}	Thermal resistance, junction to case	2.5	°C/W
R _{th(j-a)}	Thermal resistance, junction to ambient	45	°C/W


ELECTRICAL CHARACTERISTICS (T_c=25°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°C	0.1 3	mA
I _{DRM}	Repetitive peak off-state current		V _D =V _{DRM} , V _D =V _{DRM} , T _J =125°C	0.1 3	mA
I _{GT}	Gate trigger current	I	V _D =12V; R _L = 33 Ω	50	mA
		II		50	
		III		50	
I _H	Holding current		I _{GT} = 100mA, Gate Open	70	mA
V _{GT}	Gate trigger voltage all quadrant		V _D =12V; R _L = 33 Ω	2.5	V
V _{TM}	On-state voltage		I _T = 22.5A; t _p = 380 μs	1.6	V

PACKAGE MECHANICAL DATA

TO-263

Ref.	Dimensions					
	Millimeters			Inches		
	Min.	Typ.	Max.	Min.	Typ.	Max.
A	9.90		10.20	0.390		0.402
B	14.70		15.80	0.579		0.622
C	9.4		9.6	0.37		0.378
D		2.54			0.100	
E	1.20		1.40	0.047		0.055
F	0.75		0.85	0.029		0.033
G			1.75			0.069
H	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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