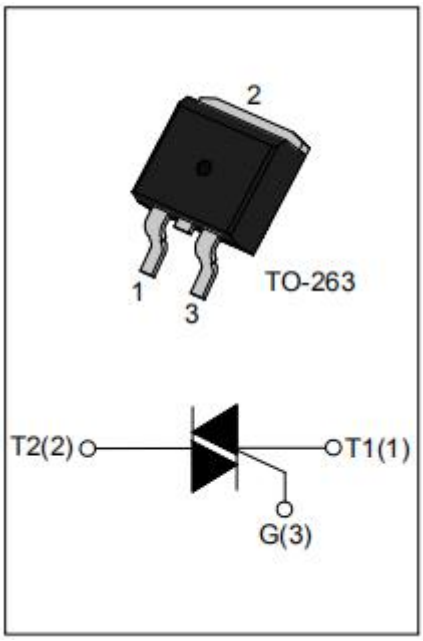
isc Triacs Q8015N5

FEATURES

- With TO-263(D^2PAK) 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
$I_{T(RMS)}$	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	℃
T_{stg}	Storage temperature	-40~150	℃
$R_{th(j-c)}$	Thermal resistance, junction to case	2.5	℃/W
$R_{th(j-a)}$	Thermal resistance, junction to ambient	45	℃/W

ELECTRICAL CHARACTERISTICS (T_C=25℃ unless otherwise specified)

SYMBOL	PARAMETER		CONDITIONS	MAX	UNIT
I_{RRM}	Repetitive peak reverse current		V_R=V_{RRM}, V_R=V_{RRM}, Tj=125℃	0.1 3	mA
I_{DRM}	Repetitive peak off-state current		V_D=V_{DRM}, V_D=V_{DRM}, Tj=125℃	0.1 3	mA
I_{GT}	Gate trigger current	I	V_D=12V; R_L= 33Ω	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= 33Ω	2.5	V
V_{TM}	On-state voltage		I_T= 22.5A; t_p= 380 μs	1.6	V

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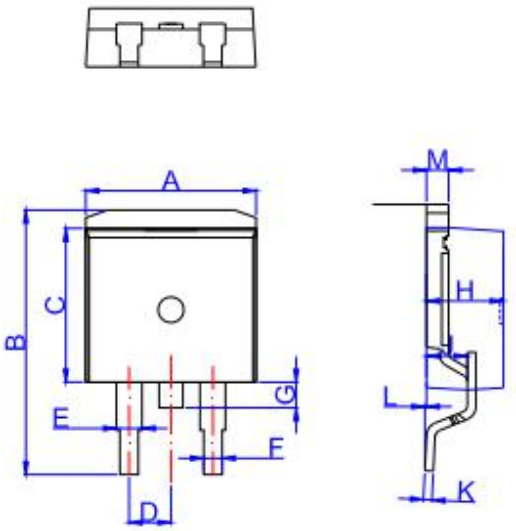
PACKAGE MECHANICAL DATA



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