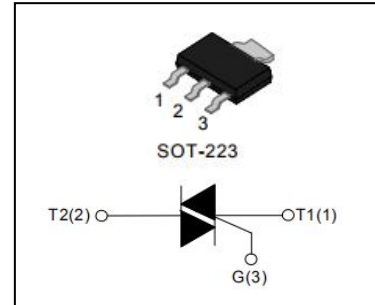


isc Triacs

Z0109MN 5AA4

FEATURES

- With low holding and latching current, the triacs are especially recommended for use on middle and small resistance type power load.



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 =90°C	1	A
I _{TSM}	Non-repetitive peak on-state current @ F=50Hz	8	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	25	°C/W

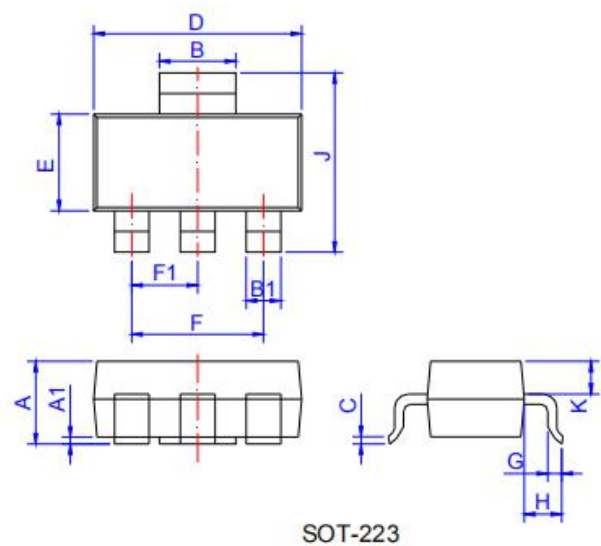
ELECTRICAL CHARACTERISTICS (T_c=25°C unless otherwise specified)

SYMBOL	PARAMETER		CONDITIONS	MAX	UNIT
I _{RRM}	Repetitive peak reverse current		V _R =V _{RRM} , T _j =25°C	5	μA
			V _R =V _{RRM} , T _j =125°C	0.5	mA
I _{GT}	Gate trigger current	I	V _D =12V; R _L = 30 Ω	10	mA
		II		10	
		III		10	
		IV		10	
I _H	Holding current		I _T = 50mA, Gate Open	10	mA
V _{GT}	Gate trigger voltage all quadrant		V _D =12V; R _L = 30 Ω	1.3	V
V _{TM}	On-state voltage		I _T = 1.4A; t _p = 380 μ s	1.6	V

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OUTLINE DRAWING



Ref.	Dimensions					
	Millimeters			Inches		
	Min.	Typ.	Max.	Min.	Typ.	Max.
A	1.5	1.6	1.8	0.059	0.063	0.071
A1	0.01	0.06	0.10	0.001	0.002	0.004
B	2.9	3.0	3.1	0.114	0.118	0.122
B1	0.6	0.7	0.8	0.024	0.028	0.031
C	0.22	0.26	0.32	0.009	0.010	0.013
D	6.3	6.5	6.7	0.248	0.256	0.264
E	3.3	3.5	3.7	0.130	0.138	0.146
F		4.6			0.181	
F1		2.3			0.091	
G	0.7	0.9	1.1	0.028	0.035	0.043
H	1.5	1.75	2	0.059	0.069	0.079
J	6.7	7.0	7.3	0.264	0.276	0.287
K		0.9			0.035	