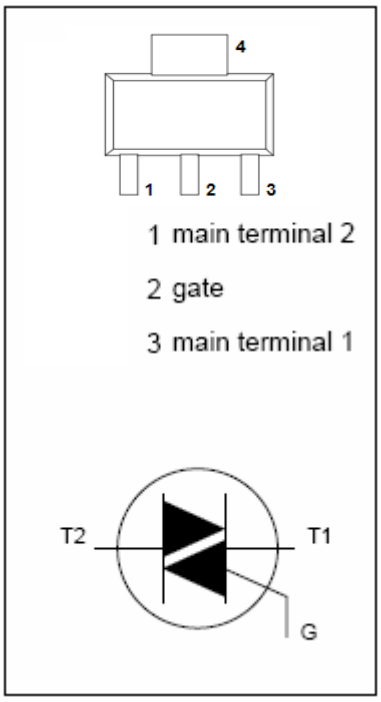
◆ Features

- With SOT-223 package
- For use in general purpose bidirectional switching and phase control applications, which is intended to be interfaced directly to microcontrollers,logic integrated circuits and other low power gate trigger circuits.



SOT-223

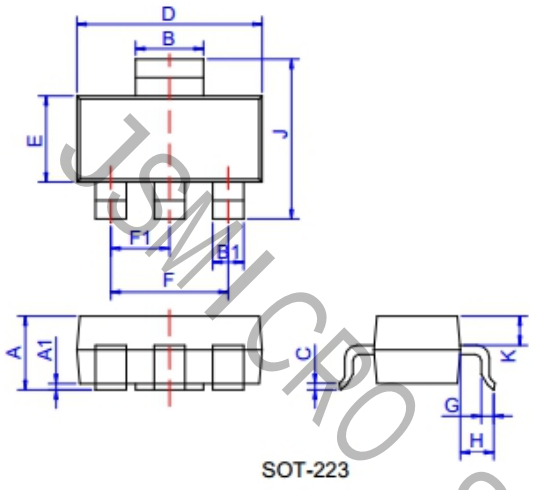
◆ QUICK REFERENCE DATA

SYMBOL	PARAMETER	VALUE	UNIT
V_{DRM}	Repetitive peak off-state voltage	600	V
V_{RRM}	Repetitive peak off-state voltage	600	V
$I_{T(AV)}$	Average on-state current	1	A
I_{TSM}	Non-repetitive peak on-state current	16	A
$P_{G(AV)}$	Average gate power	0.5	W
T_{stg}	Storage temperature	-40～150	℃
T_j	Operating junction temperature	125	℃

◆ ELECTRICAL CHARACTERISTICS (Tj = 25°C, unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V_{DRM}	Repetitive peak off-state voltage	I_D=0.1mA	600		V
V_{RRM}	Repetitive peak reverse voltage	I_D=0.5mA	600		V
I_{GT}	Gate trigger current	V_D=12V; I_T = 0.1A T2+ G+		3	mA
		T2+ G-		3	
		T2- G-		3	
		T2- G+		7	
V_T	On-state voltage	I_T=2A		1.5	V
I_H	Holding current	V_D=12V; I_{GT} = 0.1 A		5	mA
V_{GT}	Gate trigger voltage	V_D=12V ; I_T = 0.1A T2+ G+		1.5	V
		T2+ G-		1.5	
		T2- G-		1.5	
		T2- G+		1.5	

SOT-223 PACKAGE OUTLINE DIMENSIONS



SOT-223

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	