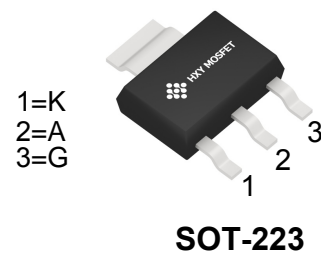




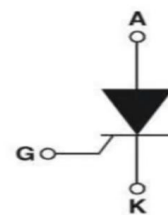
Description

The 2P4M 2A SCR series provide high dv/dt rate with strong resistance to electromagnetic interface. They are especially recommended for use on residual current circuit breaker, straight hair, igniter etc.



Main Features

symbol	value	unit
$I_{T(RMS)}$	2.0	A
I_{GT}	90	μA
V_{DRM}/V_{RRM}	600	V



Absolute Maximum Ratings

Parameter	Symbol	Value	Unit
Storage junction temperature range	T_{stg}	-40~150	$^{\circ}C$
Operating junction temperature range	T_j	125	$^{\circ}C$
Repetitive peak off-state voltage ($T_j=25^{\circ}C$)	V_{DRM}	600	V
Repetitive peak reverse voltage ($T_j=25^{\circ}C$)	V_{RRM}	600	V
RMS on-state current	$I_{T(RMS)}$	2	A
Non repetitive surge peak on-state current (full cycle, $F=50Hz$)	I_{TSM}	20	A

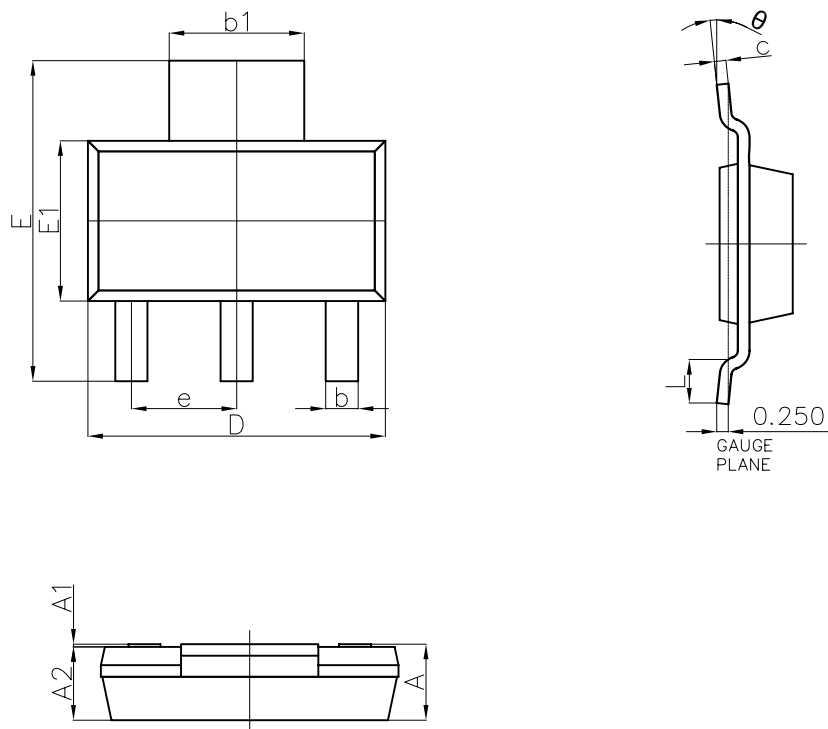


Electrical Characteristics ($T_j=25^{\circ}\text{C}$ unless otherwise specified)

Symbol	Test Condition	Value			Unit
		Min	Typ	Max	
I_{GT}	$V_D=12\text{V}, R_L=100\Omega$	-	-	90	μA
V_{GT}		-	-	0.8	V
V_{GD}	$V_D=V_{DRM} T_j=110^{\circ}\text{C}$	0.2	-	-	V
I_H	$I_T=50\text{mA}$	-	-	3	mA
dV/dt	$V_D=2/3 \times V_{DRM} T_j=110^{\circ}\text{C} R_{GK}=1\text{k}\Omega$	20	-	-	$\text{V}/\mu\text{s}$
V_{TM}	$I_{TM}=2\text{A}$	-	-	1.6	V
I_{DRM} I_{RRM}	$V_D=V_{DRM}=V_{RRM}$ $R_{GK}=1\text{k}\Omega$	-	-	0.1	mA



SOT-223 Package Outline Dimensions



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max.	Min.	Max.
A	—	1.800	—	0.071
A1	0.020	0.100	0.001	0.004
A2	1.500	1.700	0.059	0.067
b	0.660	0.840	0.026	0.033
b1	2.900	3.100	0.114	0.122
c	0.230	0.350	0.009	0.014
D	6.300	6.700	0.248	0.264
E	6.700	7.300	0.264	0.287
E1	3.300	3.700	0.130	0.146
e	2.300(BSC)		0.091(BSC)	
L	0.750	—	0.030	—
θ	0°	10°	0°	10°



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