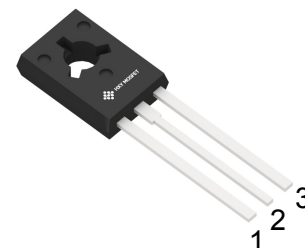




Description

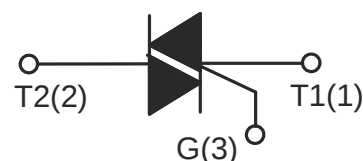
The X0405 SCR series provide high dv/dt rate with strong resistance to electromagnetic interface. They are especially recommended for use on straight hair, igniter etc.



Package Marking and Ordering Information

Product ID	Pack	Packing Method	Qty(PCS)
X0405MF	TO-126	Bulk	2500

TO-126



Maximum Ratings (Ta=25 unless otherwise noted)

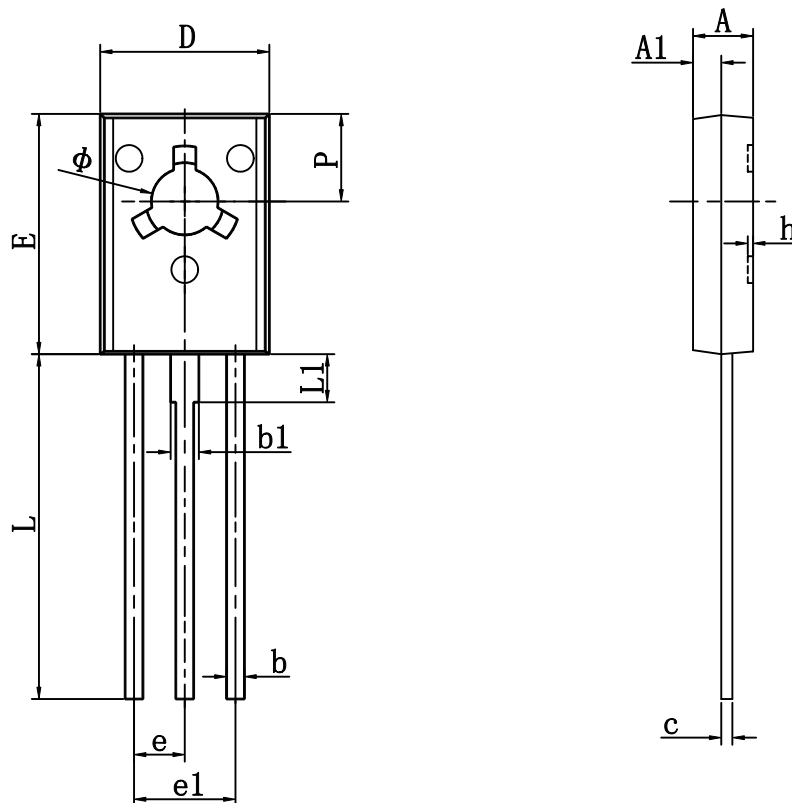
Parameter	Symbol	Value	Unit
Storage junction temperature range	T_{stg}	-40~150	°C
Operating junction temperature range	T_j	-40~110	°C
Repetitive peak off-state voltage ($T_j=25^{\circ}\text{C}$)	V_{DRM}	600	V
Repetitive peak reverse voltage ($T_j=25^{\circ}\text{C}$)	V_{RRM}	600	V
RMS on-state current	$I_{T(RMS)}$	4	A
Non repetitive surge peak on-state current (full cycle, F=50Hz)	I_{TSM}	35	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}	$V_D=1/2V_{DRM}$	0.2	-	-	V
I_H	$I_T=100\text{mA}$ $R_{GK}=1\text{k}\Omega$	-	-	3	mA
dV/dt	$V_D=75\%V_{DRM}$ $T_j=110^{\circ}\text{C}$ $R_{GK}=1\text{k}\Omega$	20	-	-	V/ μs
V_{TM}	$I_T=4\text{A}$	-	-	1.6	V
I_{DRM} I_{RRM}	$V_D=V_{DRM}=V_{RRM}$ $R_{GK}=1\text{k}\Omega$	-	-	0.1	mA



TO-126 Package Outline Dimensions



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	2.500	2.900	0.098	0.114
A1	1.100	1.500	0.043	0.059
b	0.660	0.860	0.026	0.034
b1	1.170	1.370	0.046	0.054
c	0.450	0.600	0.018	0.024
D	7.400	7.800	0.291	0.307
E	10.600	11.000	0.417	0.433
e	2.290 TYP		0.090 TYP	
e1	4.480	4.680	0.176	0.184
h	0.000	0.300	0.000	0.012
L	15.300	15.700	0.602	0.618
L1	2.100	2.300	0.083	0.091
P	3.900	4.100	0.154	0.161
ϕ	3.000	3.200	0.118	0.126



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