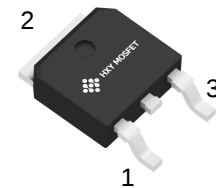




Description

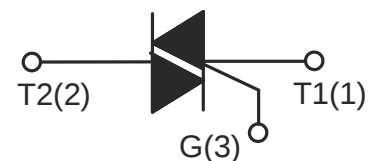
The X0405 SCR series provide high dv/dt rate with strong resistance to electromagnetic interface. They are especially recommended for use on straight hair, igniter etc.



TO-252-2L

Package Marking and Ordering Information

Product ID	Pack	Packing Method	Qty(PCS)
X0405	TO-252-2L	Tape and Reel	2500



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



Plastic-Encapsulate Thyristors

Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max.	Min.	Max.
A	2.200	2.400	0.087	0.094
A1	0.000	0.127	0.000	0.005
b	0.660	0.860	0.026	0.034
c	0.460	0.580	0.018	0.023
D	6.500	6.700	0.256	0.264
D1	5.100	5.460	0.201	0.215
D2	0.483 TYP.		0.190 TYP.	
E	6.000	6.200	0.236	0.244
e	2.186	2.386	0.086	0.094
L	9.800	10.400	0.386	0.409
L1	2.900 TYP.		0.114 TYP.	
L2	1.400	1.700	0.055	0.067
L3	1.600 TYP.		0.063 TYP.	
L4	0.600	1.000	0.024	0.039
Φ	1.100	1.300	0.043	0.051
θ	0°	8°	0°	8°
h	0.000	0.300	0.000	0.012
V	5.350 TYP.		0.211 TYP.	



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