

TO-92 Plastic-Encapsulate Thyristors

XL1225

Silicon Controlled Rectifier

Features

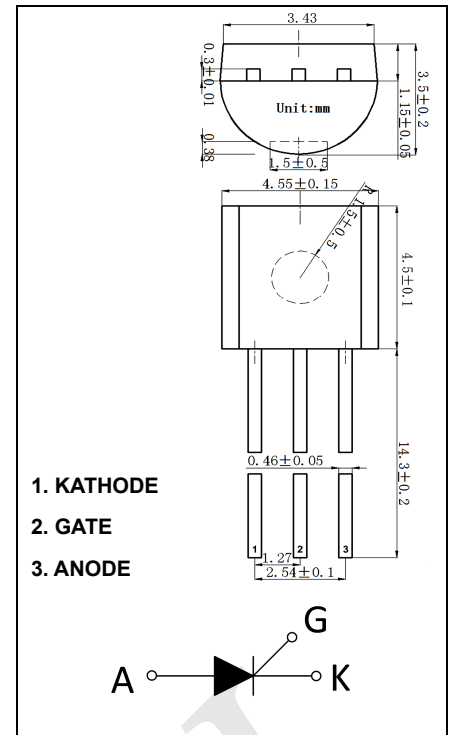
- Intended for low-cost high-volume applications.

Applications

- Applied to high Voltage control circuit.

Description

Thyristor in a TO-92 Plastic Package.



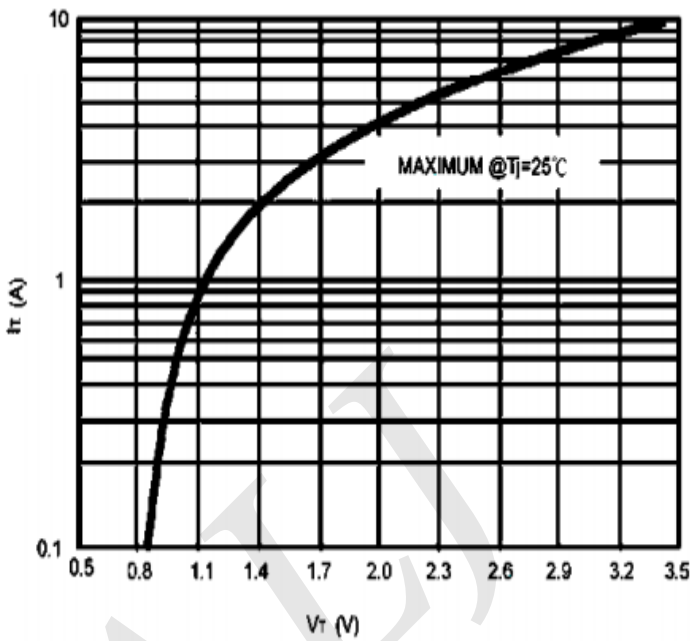
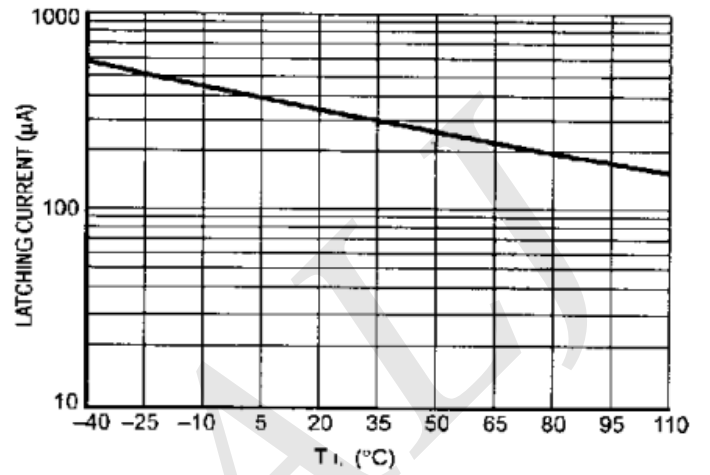
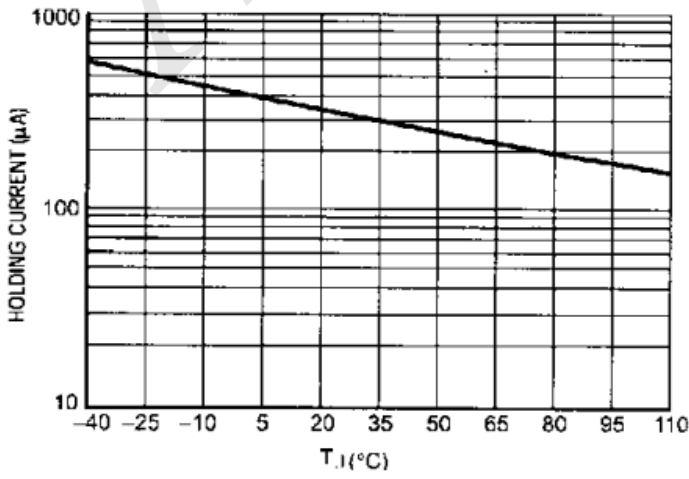
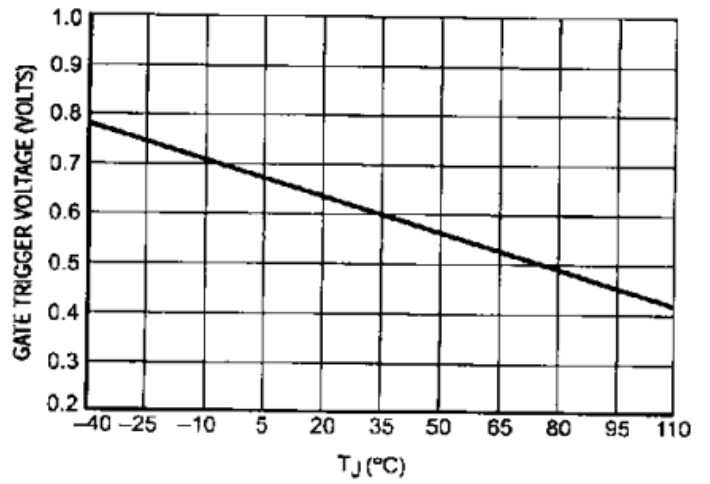
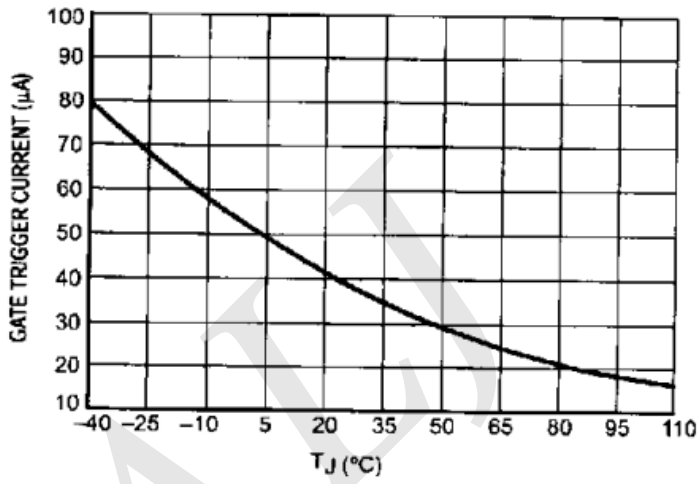
Maximum Ratings ($T_a=25^\circ\text{C}$ unless otherwise noted)

Symbol	Parameter	Test Conditions	Value	Unit
V_{DRM} , V_{RRM}	Repetitive peak off-state voltages	$T_j = 40$ to 125°C ($r_{gk} = 1\text{k}\Omega$)	400	V
$I_{T(RMS)}$	RMS on-state current	$T_C = 40^\circ\text{C}$	0.8	A
$I_{T(AV)}$	Average on-state current	Half cycle = 180 $T_C = 40^\circ\text{C}$	0.5	V
V_{GRM}	Peak Reverse Gate Voltage	$I_{GR} = 10\mu\text{A}$	1.0	A
I_{GM}	Peak gate current	10 μs Max	0.1	A
P_{GM}	Peak gate power	20ms Max	150	mW
T_j	Junction Temperature		-40 ~ 125	$^\circ\text{C}$
T_{stg}	Storage Temperature		-55 ~ 150	$^\circ\text{C}$
T_{SLD}	Soldering Temperature	6mm from case 10s Max	250	$^\circ\text{C}$

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

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
I_{DRM}	Repetitive peak off-state current	V_{DRM} ($R_{GK} = 1\text{k}\Omega$), $T_j = 125^\circ\text{C}$			0.1	mA
I_{RRM}	Repetitive peak off-state current	V_{DRM} ($R_{GK} = 1\text{k}\Omega$), $T_j = 25^\circ\text{C}$			1	μA
V_T	Repetitive peak on-state voltage	$I_T = 0.4\text{A}$			1.4	V
		$I_T = 0.8\text{A}$			2.2	
$V_{T(TO)}$	On state threshold voltage	$T_j = 125^\circ\text{C}$			0.95	V
R_t	On state slops resistance	$T_j = 125^\circ\text{C}$			600	m
I_{GT}	Gate trigger current	$V_D = 7.0\text{V}$			200	μA
V_{GT}	Gate trigger voltage	$V_D = 7.0\text{V}$			0.8	V
I_H	Holding current	$R_{GK} = 1\text{k}\Omega$			5	mA
I_L	Latching current	$R_{GK} = 1\text{k}\Omega$			6	mA

Electrical Characteristic Curve



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