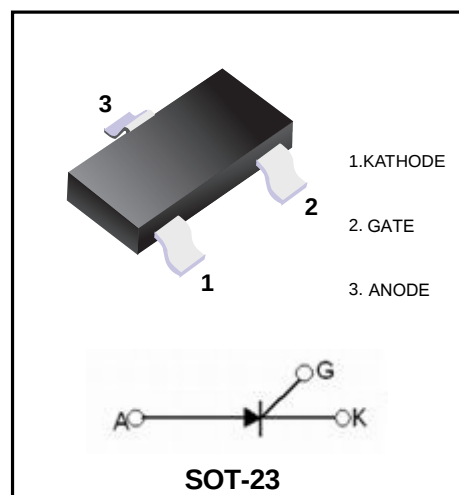


Plastic-Encapsulate Thyristors

Silicon Controlled Rectifier

Product Summary

Symbol	Value	Unit
$I_{T(RMS)}$	0.8	A
V_{DRM} V_{RRM}	400/600	V
V_{TM}	1.7	V



Order Information

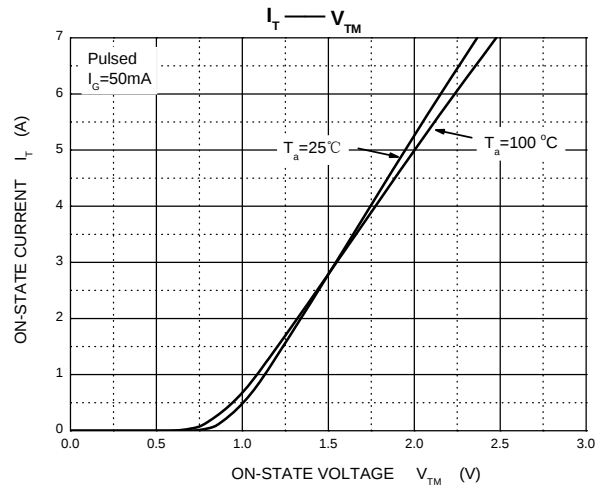
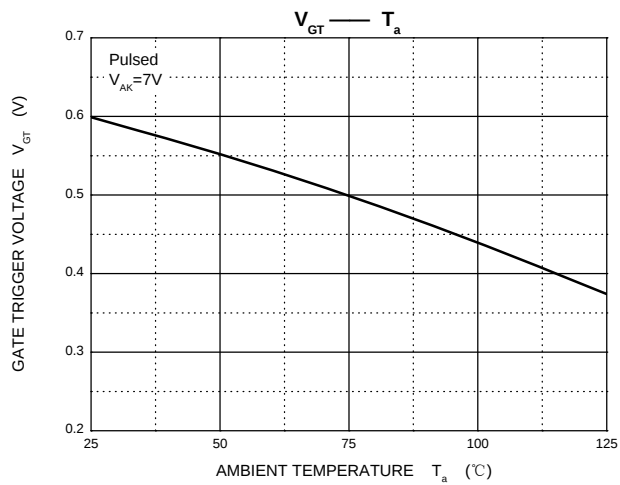
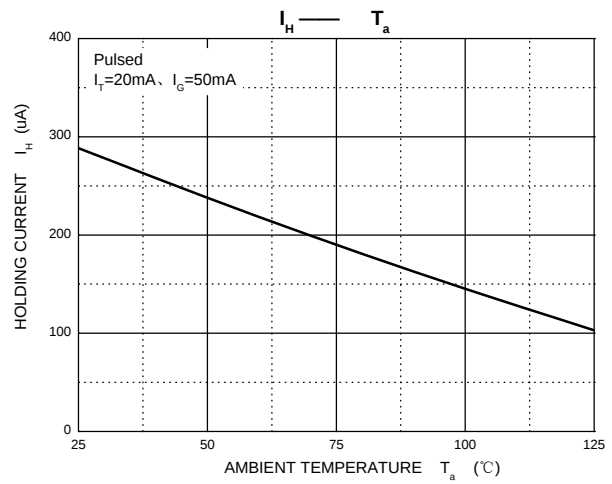
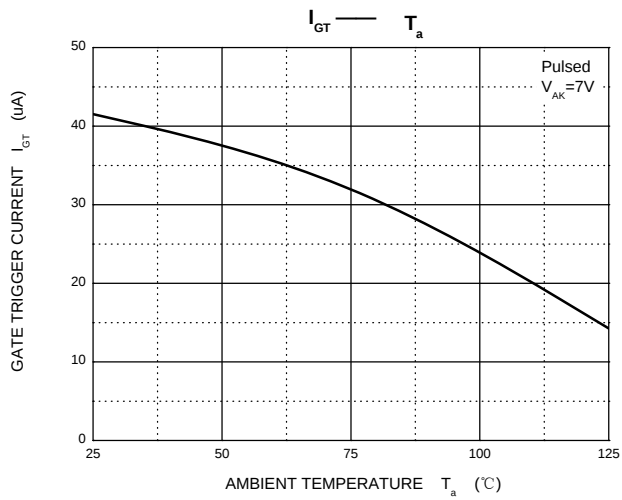
Part Number	Package	Marking	packing	Delivery Quantity
MCR100-6	SOT-23	100-6	Tape	3000PCS
MCR100-8	SOT-23	100-8	Tape	3000PCS

ELECTRICAL CHARACTERISTICS (Ta=25 °C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Max	Unit
On state voltage	V_{TM}^*	$I_{TM}=1A$		1.7	V
Gate trigger voltage	V_{GT}	$V_{AK}=7V$		0.8	V
Peak Repetitive forward and reverse blocking voltage MCR100-6 MCR100-8	V_{DRM} AND V_{RRM}	$I_{DRM}=10\mu A$	400 600		V
Peak forward or reverse blocking Current	I_{DRM} I_{RRM}	$V_{AK} = \text{Rated}$ V_{DRM} or V_{RRM}		10	μA
Holding current	I_H	$I_{HL}=20mA, V_{AK}=7V$		5	mA
Gate trigger current	I_{GT}	$V_{AK}=7V$	5	15	μA
			15	30	μA
			30	80	μA
			80	200	μA
Junction Temperature	T_J		-55+150		°C
Storage Temperature	T_{STG}		-55+150		°C

* Forward current applied for 1 ms maximum duration, duty cycle $\leq 1\%$.

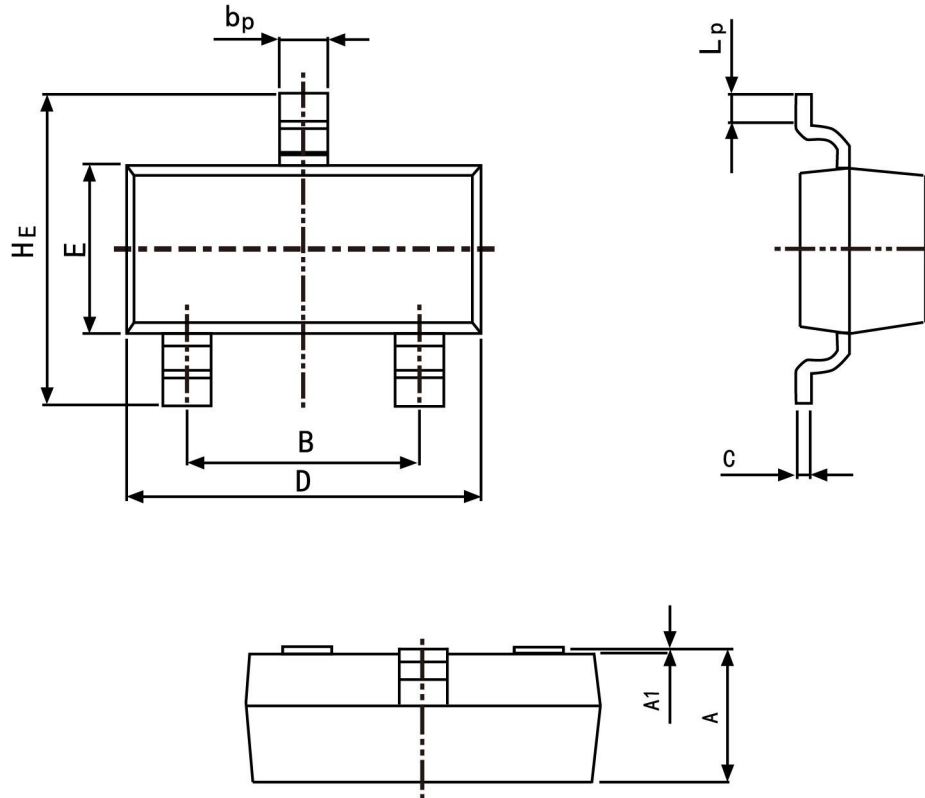
Typical Characteristics



Package Outline

SOT-23

Plastic surface mounted package; 3 leads



Symbol	Dimension in Millimeters	
	Min	Max
A	0.95	1.40
B	1.78	2.04
bp	0.35	0.50
C	0.08	0.19
D	2.70	3.10
E	1.20	1.65
HE	2.20	3.00
A1	0.100	0.013
Lp	0.20	0.50

Summary of Packing Options

Package	Packing Description	Packing Quantity	Industry Standard
SOT-23	Tape/Reel, 7" reel	3000	EIA-481-1