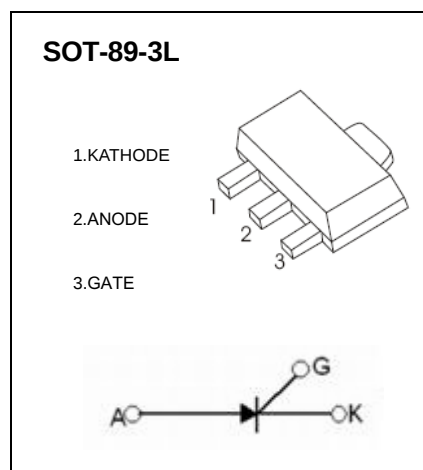


Plastic-Encapsulate Thyristors

Silicon Controlled Rectifier

FEATURES

- Current- I_{GT} : 200 μ A
- I_{TRMS} : 0.8 A
- V_{RRM}/V_{DRM} : MCR100-6: 400 V
MCR100-8: 600 V
- Operating and storage junction temperature range
 T_J, T_{stg} : -55°C to +150°C

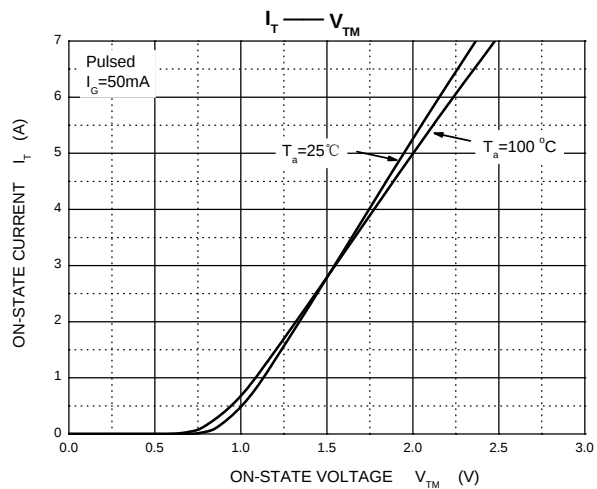
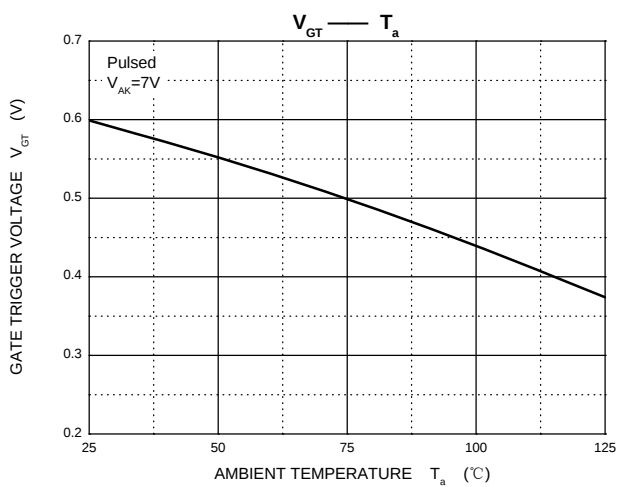
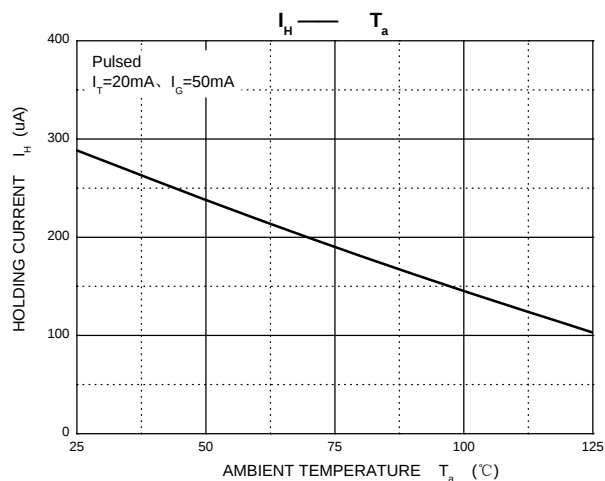
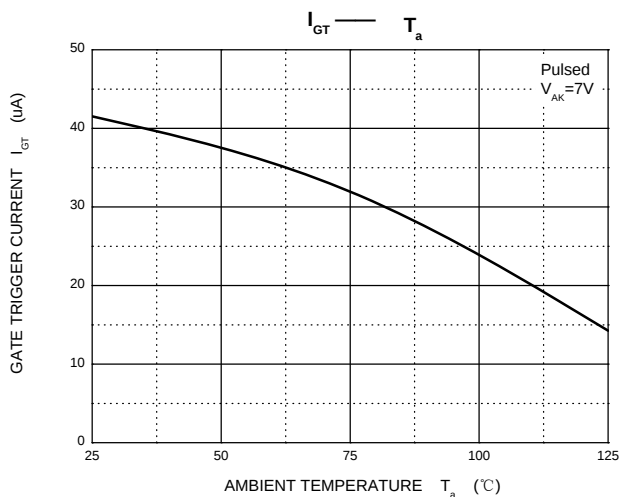


ELECTRICAL CHARACTERISTICS ($T_a=25^\circ\text{C}$ unless otherwise specified)

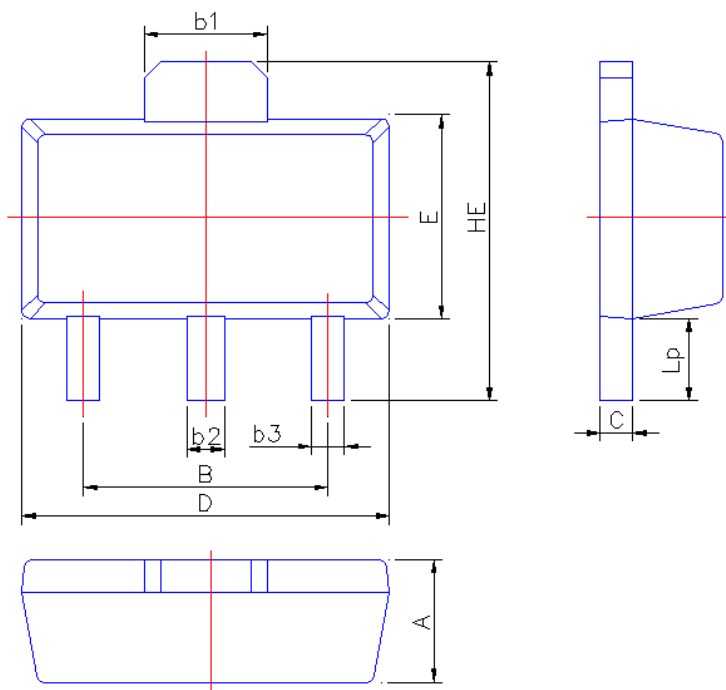
Parameter	Symbol		Test conditions	Min	Max	Unit
On state voltage	V_{TM}^*		$I_{TM}=1A$		1.7	V
Gate trigger voltage	V_{GT}		$V_{AK}=7V$		0.8	V
Peak Repetitive forward and reverse blocking voltage MCR100-6 MCR100-8	V_{DRM} AND V_{RRM}		$I_{DRM}=10\mu A$	400 600		V
Peak forward or reverse blocking Current	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}	A2	$V_{AK}=7V$	5	15	μA
		A1		15	30	μA
		A		30	80	μA
		B		80	200	μA

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

Typical Characteristics



SOT-89 PACKAGE OUTLINE



Symbol	Dimension in Millimeters	
	Min	Max
A	1.40	1.60
B	2.95	3.05
b1	1.45	1.70
b2	0.45	0.56
b3	0.35	0.50
C	0.35	0.50
D	4.40	4.60
E	2.35	2.55
HE	3.90	4.40
Lp	0.90	1.10