

SOT-23 Plastic-Encapsulate Thyristors

MCR100- 6 , - 8 Silicon Controlled Rectifier

FEATURES

Current- I_{GT} : 200 μ A

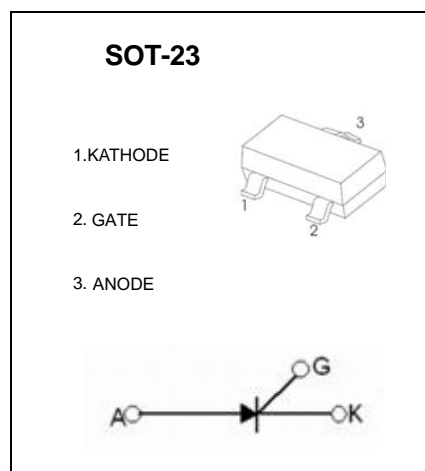
I_{TRMS} : 0.8 A

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



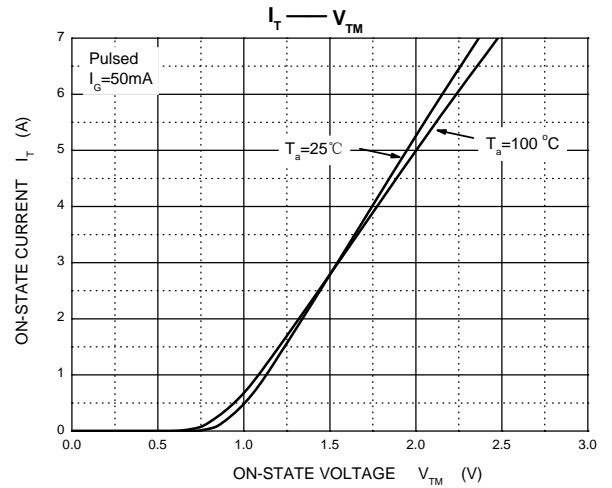
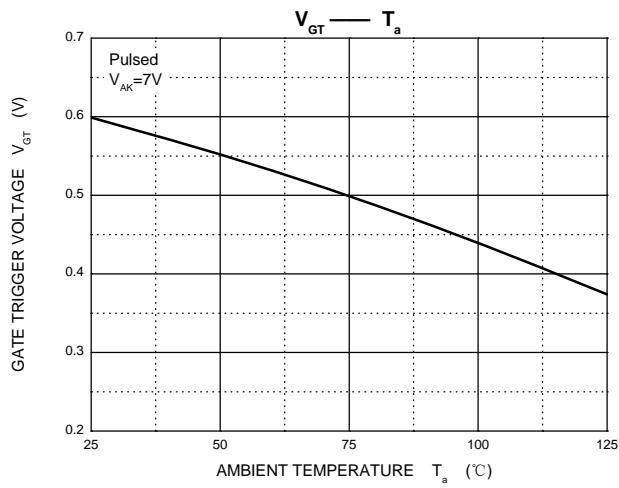
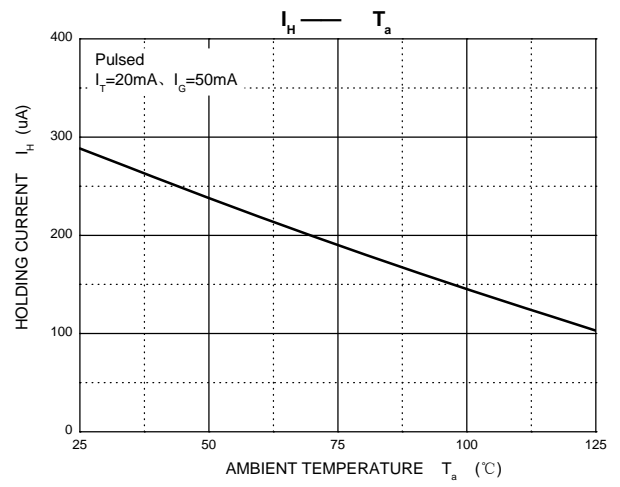
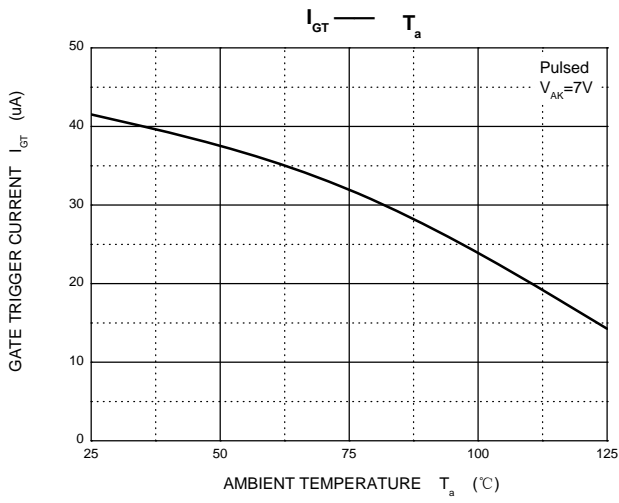
ELECTRICAL CHARACTERISTICS (Ta=25°C unless otherwise specified)

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	μ A	
Holding current	I_H	$I_{HL}=20mA, V_{AK}=7V$		5	mA	
Gate trigger current	I_{GT}	$V_{AK}=7V$	A2	5	15	μ A
			A1	15	30	μ A
			A	30	80	μ A
			B	80	200	μ A

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



Typical Characteristics

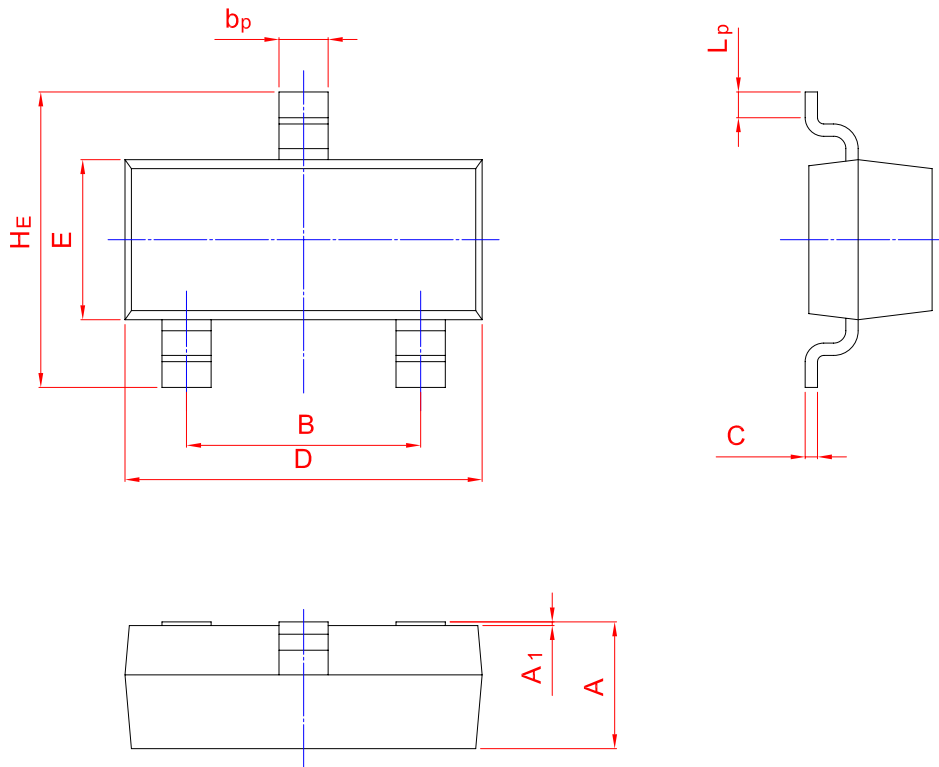
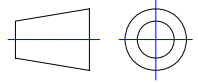




PACKAGE OUTLINE

Plastic surface mounted package; 3 leads

SOT-23



UNIT	A	B	bp	C	D	E	HE	A1	Lp
mm	1.40	2.04	0.50	0.19	3.10	1.65	3.00	0.100	0.50
	0.95	1.78	0.35	0.08	2.70	1.20	2.20	0.013	0.20

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