

SOT-23 Plastic-Encapsulate Thyristors

MCR100- 6 , - 8 Silicon Controlled Rectifier

FEATURES

Current- I_{GT} : 200 μ A

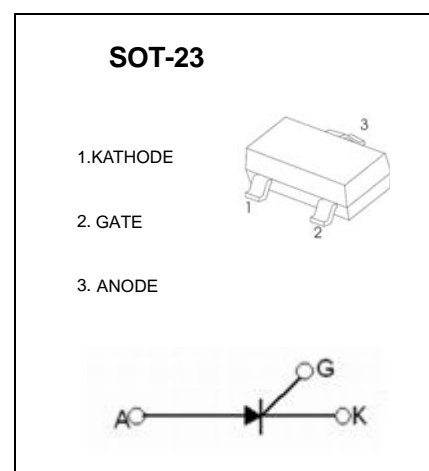
I_{TRMS} : 0.8 A

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



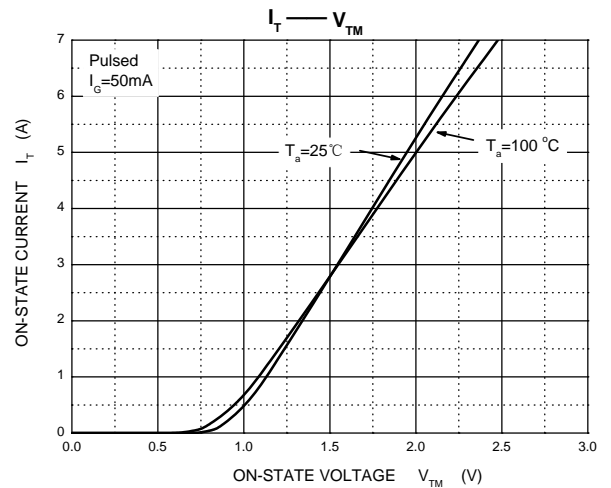
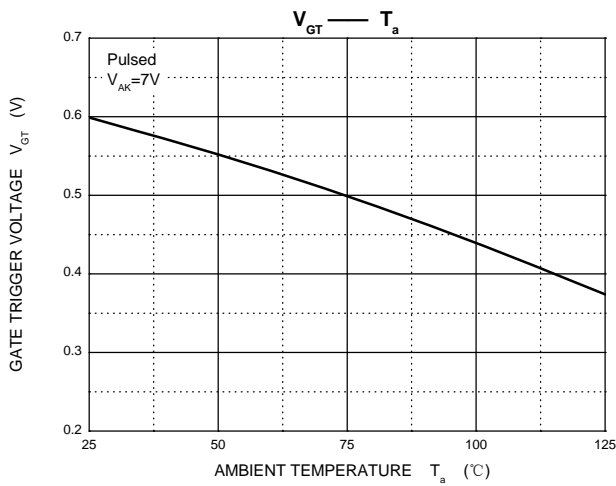
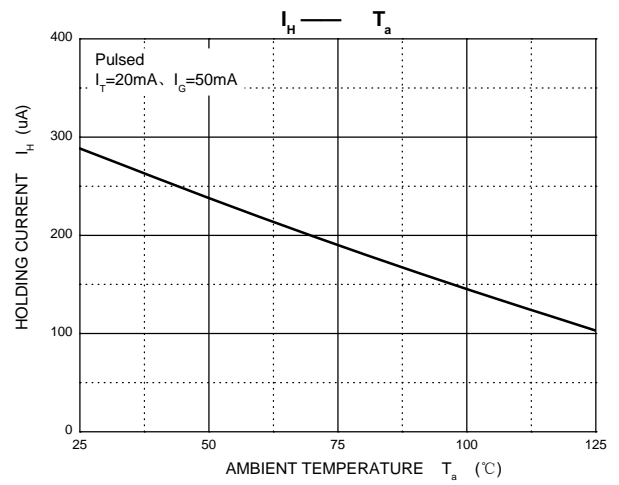
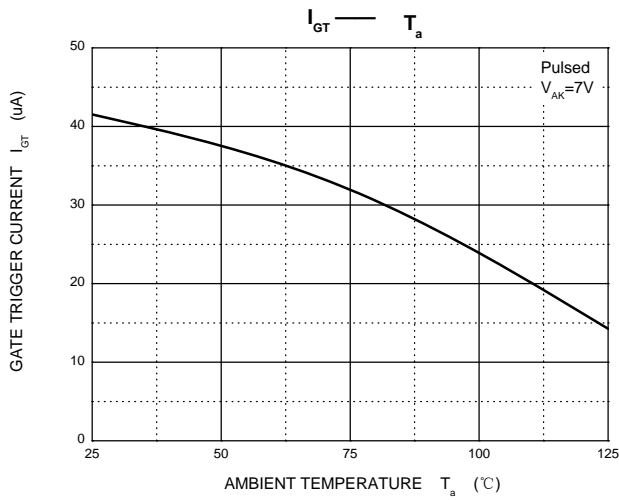
ELECTRICAL CHARACTERISTICS (Ta=25°C unless otherwise specified)

| 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

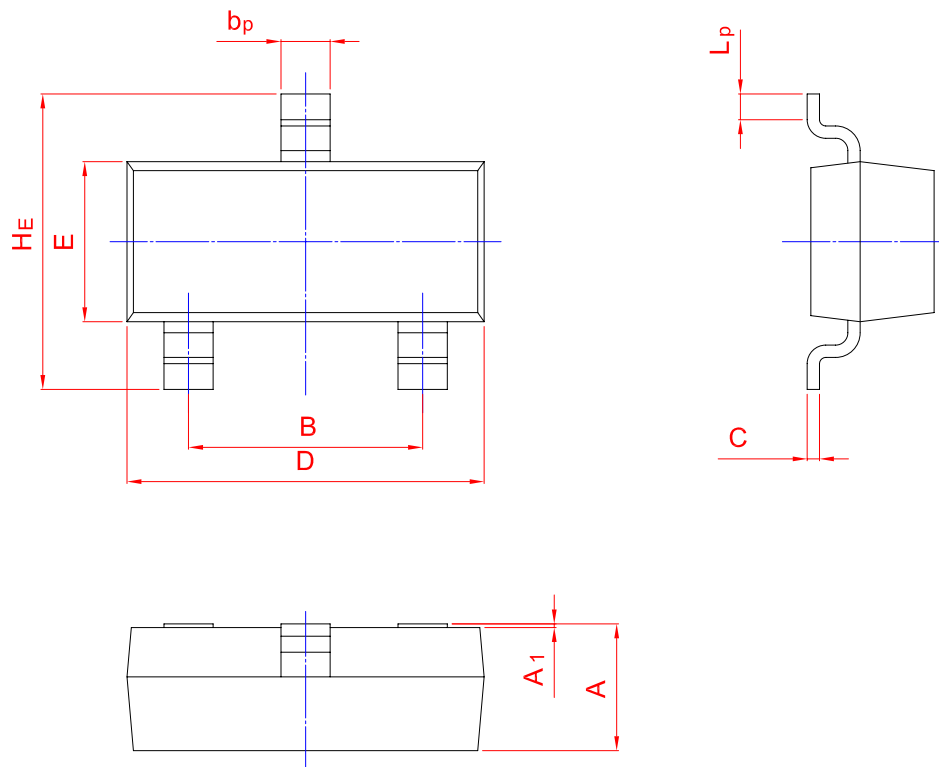
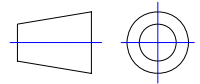




PACKAGE OUTLINE

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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