

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

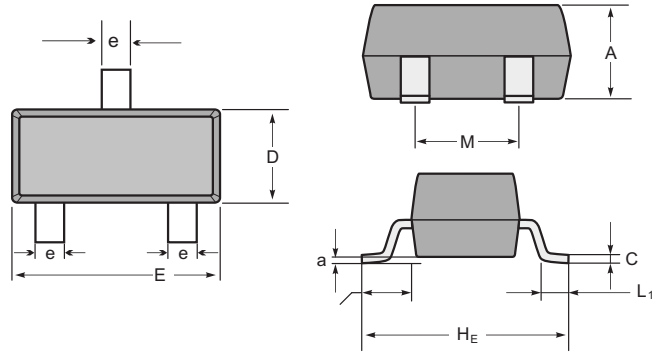
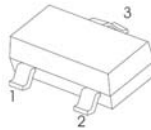
T_J, T_{stg} : -55°C to +150°C

SOT-23

1. KATHODE

2. GATE

3. ANODE



SOT-23 mechanical data

UNIT		A	C	D	E	H _E	e	M	L	L ₁	a
mm	max	1.1	0.15	1.4	3.0	2.6	0.5	1.95	0.55 (ref)	0.36 (ref)	0.0
	min	0.9	0.08	1.2	2.8	2.2	0.3	1.7			0.15
mil	max	43	6	55	118	102	20	77	22 (ref)	14 (ref)	0.0
	min	35	3	47	110	87	12	67			6

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

Parameter	Symbol	Test conditions	Min	Max	Unit
On state voltage	V_{TM}^*	$I_{TM}=1\text{A}$		1.7	V
Gate trigger voltage	V_{GT}	$V_{AK}=7\text{V}$		0.8	V
Peak Repetitive forward and reverse blocking voltage MCR100-6 MCR100-8	V_{DRM} AND V_{RRM}	$I_{DRM}=10\mu\text{A}$	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	$I_{HL}=20\text{mA}, V_{AK}=7\text{V}$		5	mA
Gate trigger current	I_{GT}	$V_{AK}=7\text{V}$	5	15	μA
			15	30	μA
			30	80	μA
			80	200	μA

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

RATING AND CHARACTERISTIC CURVES (MCR100-6-8)

