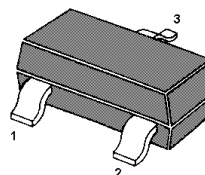
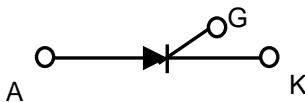


MMBT-CR100-6

SOT-23

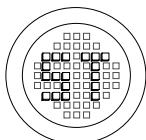


1.Cathode 2.Gate 3.Anode

Absolute Maximum Ratings ($T_a = 25\text{ }^\circ\text{C}$)

Rating	Symbol	Value	Unit
Peak Repetitive Forward and Reverse Blocking Voltage ¹⁾ ($T_J=25$ to 125°C , $R_{GK}=1\text{K}\Omega$)	V_{DRM} and V_{RRM}	400	V
Forward Current RMS (All Conduction Angles)	$I_{\text{T(RMS)}}$	0.6	A
Peak Forward Surge Current, (1/2 Cycle, Sine Wave, 60Hz)	I_{TSM}	6	A
Circuit Fusing ($t=8.3\text{ms}$)	I^2t	0.415	A^2s
Peak Gate Power - Forward	P_{GM}	0.1	W
Average Gate Power - Forward	$P_{\text{GF(AV)}}$	0.01	W
Peak Gate Current - Forward (300 μs , 120PPS)	I_{GFM}	1	A
Peak Gate Voltage - Reverse	V_{GRM}	5	V
Operating Junction Temperature Range @ Rated V_{RRM} and V_{DRM}	T_J	-40 to +125	$^\circ\text{C}$
Storage Temperature Range	T_s	-40 to +150	$^\circ\text{C}$

¹⁾ Ratings apply for zero or negative gate voltage; however, positive gate voltage shall not be applied concurrent with negative potential on the anode.



®

РАДИОТЕХ

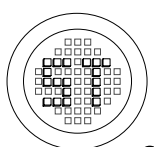
Тел.: (495) 795-0805
Факс: (495) 234-1603
Эл. почта: info@rct.ru
Веб: www.rct.ru

MMBT-CR100-6

Characteristics (T_c=25°C, R_{GK}=1KΩ unless otherwise noted)

	Symbol	Min	Max	Unit
Peak Forward or Reverse Blocking Current (V _{AK} =Rated V _{DRM} or V _{RPM})	I _{DRM} , I _{RPM}	-	20	μA
Forward "On" Voltage (I _{TM} =0.6A Peak @T _A =25°C)	V _{TM}	-	1.7	V
Gate Trigger Current(Continuous dc) ¹⁾ (Anode Voltage=12V, R _L =100 Ohms)	I _{GT}	-	200	μA
Gate Trigger Voltage(Continuous dc) (Anode Voltage=12V, R _L =100 Ohms) (Anode Voltage=Rated V _{DRM} , R _L =100 Ohms)	V _{GT}	-	0.7	V
Holding Current (Anode Voltage=12V)	I _H	-	20	mA

¹⁾ R_{GK} current is not included in measurement.



®

SEMTECH ELECTRONICS LTD.

(Subsidiary of Semtech International Holdings Limited, a company
listed on the Hong Kong Stock Exchange, Stock Code: 724)



ISO/TS 16949 : 2002
Certificate No. 05103



ISO 14001
Certificate No. 7116



ISO 9001 : 2000
Certificate No. 5555-1986-A2-RSC-Pak

Dated : 20/10/2005