



TIGER ELECTRONIC CO.,LTD

SOT-89 Plastic-Encapsulate Transistors

MCK 100- 6, - 8 Silicon Planar PNP Thyristor

FEATURES

Current- I_{GT} : 200 μ A

I_{TRMS} : 0.8 A

V_{DRM} : MCK100-6: 400 V

MCK100-8: 600 V

Operating and storage junction temperature range

T_J, T_{stg} : -55°C to +150°C

SOT-89



1.KATHODE

2.ANODE

3.GATE

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

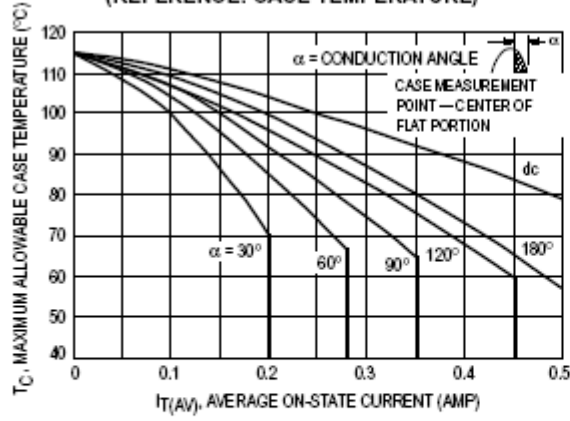
Parameter	Symbol	Test conditions	MIN	MAX	UNIT	
On state voltage *	V_{TM}	$I_{TM}=1A$		1.7	V	
Gate trigger voltage	V_{GT}	$V_{AK}=7V$		0.8	V	
Peak Repetitive forward and reverse blocking voltage MCK100-6 MCK100-8	V_{DRM} AND V_{RRM}	$I_{DRM}=10 \mu A, V_{MAX}=1010 V$	400 600		V	
Peak forward or reverse blocking Current	I_{DRM} I_{RRM}	$V_{AK}=\text{Rated}$ V_{DRM} or V_{RRM}		10	μA	
Holding current	I_H	$I_{HL}=20 \text{ mA}, A_v = 7 V$		5	mA	
Gate trigger current	I_{GT}	$V_{AK}=7V$	A2	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

MCK100-6,-8

**FIGURE 1 – MCR100-8 CURRENT DERATING
(REFERENCE: CASE TEMPERATURE)**



**FIGURE 2 – MCR100-8 CURRENT DERATING
(REFERENCE: AMBIENT TEMPERATURE)**

