

isc Thyristors

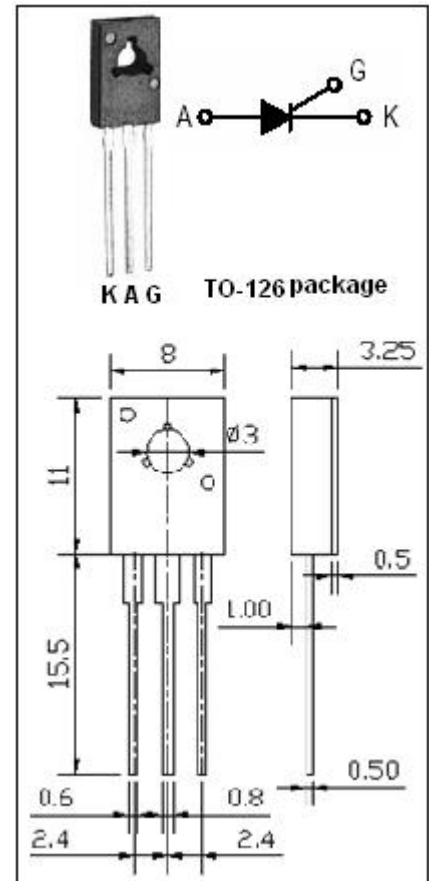
MCR106-6

FEATURES

- Low Thermal Resistance
- High Heat Dissipation and Durability
- Designed for high volume consumer applications such as temperature, light and speed control; process and remote control, and warning systems and etc.
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

ABSOLUTE MAXIMUM RATINGS($T_a=25^\circ\text{C}$)

SYMBOL	PARAMETER	MIN	UNIT
V_{DRM}	Repetitive peak off-state voltage	400	V
V_{RRM}	Repetitive peak off-state voltage	400	V
$I_{\text{T(AV)}}$	Average on-state current $T_c=93^\circ\text{C}$	2.55	A
$I_{\text{T(RMS)}}$	on-state RMS current $T_c=93^\circ\text{C}$	4	A
P_{GM}	Peak gate power $T_c=93^\circ\text{C}$	0.5	W
$P_{\text{G(AV)}}$	Average gate power $T_c=93^\circ\text{C}$	0.1	W
T_j	Operating junction temperature	110	$^\circ\text{C}$
T_{stg}	Storage temperature	-40~+ 150	$^\circ\text{C}$

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

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
I_{RRM}	Repetitive peak reverse current	$V_{\text{RRM}}=400\text{V}$ $V_{\text{RRM}}=400\text{V}, T_j=110^\circ\text{C}$		10 200	μA
I_{DRM}	Repetitive peak off-state current	$V_{\text{DRM}}=400\text{V}$ $V_{\text{DRM}}=400\text{V}, T_j=110^\circ\text{C}$		10 200	μA
I_{GT}	Gate trigger current	$V_D=7\text{V}; R_L=100\Omega$		200	μA
V_{TM}	On-state voltage	$I_T=4\text{A}$		2.0	V
I_{H}	Holding current	$I_T=0.2\text{A}; \text{Gate Open}$		5	mA
V_{GT}	Gate trigger voltage	$V_D=7\text{V}; R_L=100\Omega$		1.0	V

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