

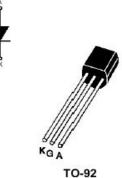


isc Thyristors

MCR100-6

FEATURES

- With TO-92 package
- · Sensitive gate trigger current
- Low reverse and forward blocking current
- Low holding current
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	MIN	МАХ	UNIT
V _{DRM}	Repetitive peak off-state voltage	400		V
V _{RRM}	Repetitive peak off-state voltage	400		V
I _{T(RMS)}	RMS on-state current(180° conduction angle)		0.8	A
I _{TSM}	Non-repetitive peak on-state current((tp=10ms))		8	A
I _{T(AV)}	Average on-state current		0.5	A
Igm	Peak gate current((tp=20 µ s))		1	A
I ² t	I ² t(tp=10ms)		0.35	A ² S
P _{GM}	Peak gate power		2	w
$P_{G(AV)}$	Average gate power		0.1	w
Tj	Operating junction temperature	-40	110	°C
T _{stg}	Storage temperature range	-40	150	°C
hermal res	sistance			

SYMBOL	PARAMETER	MAX	UNIT
Rth (j-c)	Junction to case	60	k/w
Rth (j-a)	Junction to ambient air	150	k/w



INCHANGE SEMICONDUCTOR

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SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	МАХ	UNIT
I _{RRM}	Repetitive peak reverse current	V _R = V _{RRM} V _R = V _{RRM;} Tj = 110 ℃			10 100	μ Α
I _{DRM}	Repetitive peak off-state current	V _D = V _{DRM} V _D = V _{DRM;} Tj = 110 ℃			10 100	μA
I _{GT}	Gate trigger current	V _D = 7V; R _L =100 Ω			200	μA
V _{TM}	On-state voltage	IT=1.0A,tp=380 µ s			1.7	V
I _Η	Holding current	I⊤=0.1A, Gate Open		1	5	mA
V _{GT}	Gate trigger voltage	V _D = 7V; R _L =100 Ω			0.8	V

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

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