



Micro Commercial Components



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 20736 Marilla Street Chatsworth
 CA 91311
 Phone: (818) 701-4933
 Fax: (818) 701-4939

MCR100F-6 MCR100F-8

Features

- Blocking Voltage to 400V (MCR100-6)
- RMS on-state current to 0.8A
- General purpose switching
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Halogen free available upon request by adding suffix "-HF"

Symbol	Rating	Rating	Unit
V_{RRM} V_{DRM}	Peak Repetitive Forward and Reverse Blocking Voltage*	MCR100-6 400 MCR100-8 600	V
$I_{T(RMS)}$	Forward Current RMS	0.8	A
T_J	Operating Junction Temperature	-55 to +150	°C
T_{STG}	Storage Temperature	-55 to +150	°C

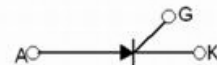
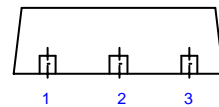
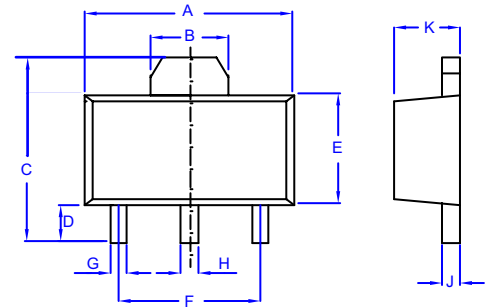
0.8 Ampere Silicon Controlled Rectifiers 400 thru 600 Volts

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Test Conditions	Min	Max	Unit
I_{DRM} I_{RRM}	Peak Forward or Reverse Blocking Current (V_{AK} =Rated V_{DRM} or V_{RRM} ;	---	10	μA
V_{TM}	Forward "On" Voltage* ($I_{TM}=1A$)	---	1.7	V
V_{GT}	Gate Trigger Voltage ($V_{AK}=7V$)	---	0.8	V
I_H	Holding Current ($V_{AK}=7V$, $I_{HL}=20mA$)	---	5.0	mA
I_{GT}	Gate Trigger Current ($V_{AK}=7V$)	30	80	uA

* Forward current applied for 1ms maximum duration, duty Cycle \leq 1%

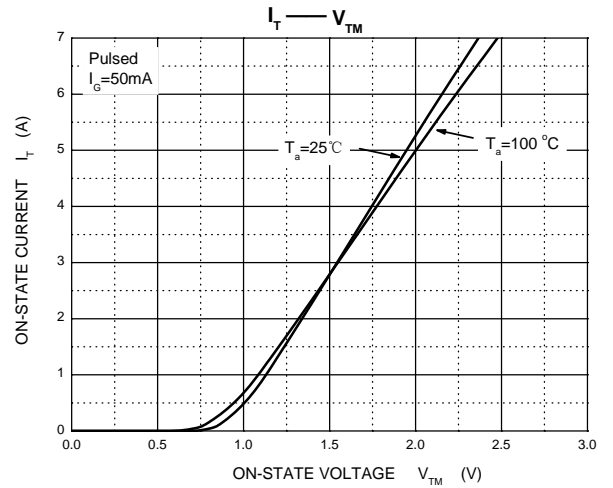
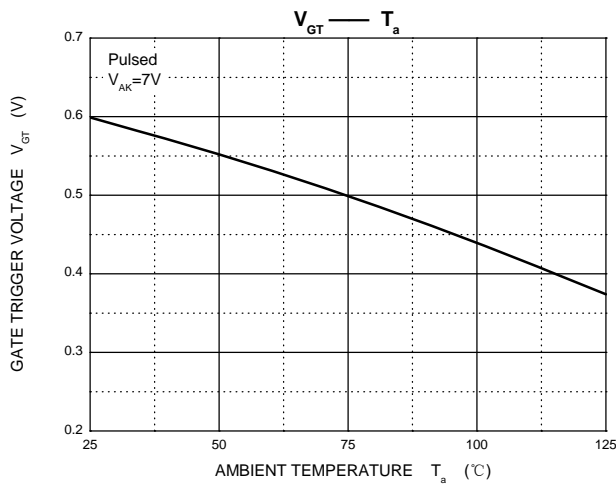
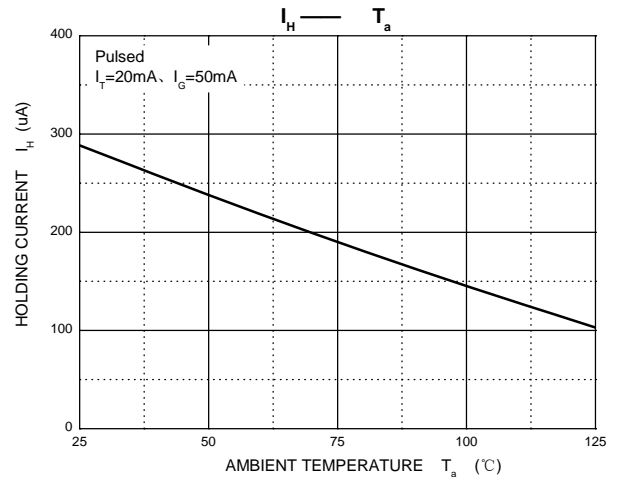
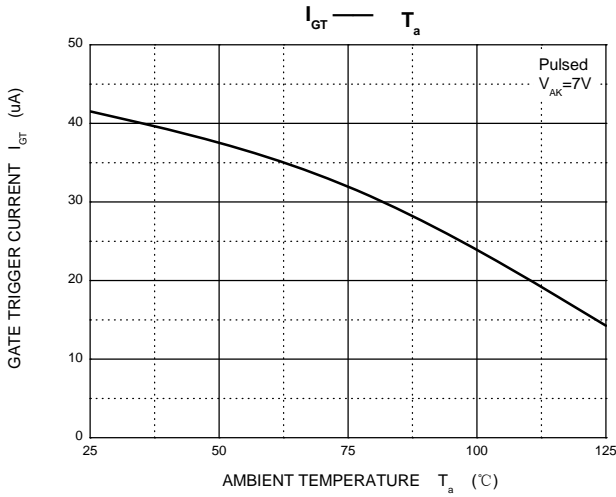
SOT-89



- 1.KATHODE
- 2.ANODE
- 3.GATE

DIM	DIMENSINS				NOTES
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	.173	.181	4.39	4.60	
B	.061	----	1.55	----	REF
C	.154	.165	3.91	4.25	
D	.031	.047	0.80	1.20	
E	.091	.102	2.30	2.60	
F	.118	----	3.00	----	TYP
G	.013	.020	0.32	0.52	
H	.016	.023	0.40	0.58	
J	.014	.017	0.35	0.44	
K	.055	.063	1.40	1.60	

Typical Characteristics





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Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel: 1Kpcs/Reel

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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