

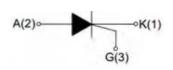
Features

- RMS on-state current to 0.8A
- General purpose switching

SOT-223

Package Marking and Ordering Information

Product ID	Pack	Packing Method	Qty(PCS)
MCR100-8WMX	SOT-223	Tape and Reel	3000



Maximum Ratings (Ta=25 unless otherwise noted)

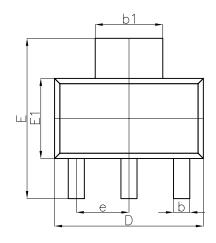
Symbol	Parameter	Value	Unit
V_{DRM}	Repetitive peak off-state voltage	800	V
V_{RRM}	Repetitive peak reverse voltage	800	V
I _{T(RMS)}	RMS on-state current(T=60℃)	0.8	Α
I _{TSM}	Non repetitive surge peak on-state current(tp=10ms)	8	Α
TJ	Operation Junction Temperature Range	- 40∼+125	$^{\circ}$ C
T _{stg}	Storage Temperature Range	- 40∼+150	$^{\circ}$

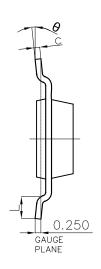
Electrical Characteristics (T_j=25°C unless otherwise specified)

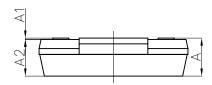
Symbol	Tool Condition	Value			11
	Test Condition	Min	Тур	Max	Unit
I_{GT}	$V_D=12V, R_L=100\Omega$	-	-	90	μA
V_{GT}	VD=12V,1Nt=10032	-	-	1	V
V_{GD}	V _D =1/2V _{DRM}	0.2	-	-	V
l _Η	I _T =100mA R _{GK} =1kΩ	-	-	3	mA
dV/dt	$V_D=75\%V_{DRM}T_j=110$ °C $R_{GK}=1K\Omega$	20	-	-	V/µs
V_{TM}	I _T =100mA R _G κ=1kΩ	-	-	1.6	V
I _{DRM} I _{RRM}	$V_D=V_{DRM}=V_{RRM}$ $R_{GK}=1k\Omega$	-	-	0.1	mA



SOT-223 Package Outline Dimensions







Symbol	Dimensions In Millimeters		Dimensions In Inches		
	Min.	Max.	Min.	Max.	
Α		1.800		0.071	
A1	0.020	0.100	0.001	0.004	
A2	1.500	1.700	0.059	0.067	
b	0.660	0.840	0.026	0.033	
b1	2.900	3.100	0.114	0.122	
С	0.230	0.350	0.009	0.014	
D	6.300	6.700	0.248	0.264	
E	6.700	7.300	0.264	0.287	
E1	3.300	3.700	0.130	0.146	
е	2.300(BSC)	0.091(BSC)		
L	0.750		0.030		
θ	0°	10°	0°	10°	

MCR100-8WMX Plastic-Encapsulate Thyristors

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