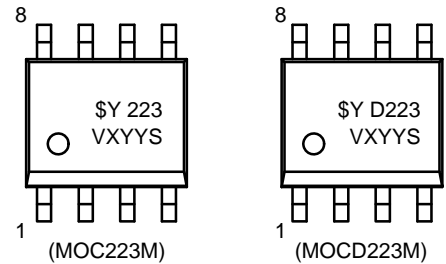


- These Devices are Pb-Free and Halogen Free
- Low Power Logic Circuits
- Interfacing and Coupling Systems of Different Potentials and Impedances
- Telecommunications Equipment
- Portable Electronics
- Solid State Relays



\$Y = Logo
 223/D223 = Specific Device Code
 V = DIN EN/IEC60747-5-5 Option
 X = One-Digit Year Code
 YY = Digit Work Week
 S = Assembly Package Code

See detailed ordering and shipping information on page 7 of this data sheet.



T_A = 25°C unless otherwise specified.

Temperature	-40 to +125	°C	
Operating Temperature	-40 to +100		
Storage Temperature	-40 to +125		
Turn-on Temperature	260 for 10 s		
Power Dissipation @ T _A = 25°C	240	mW	
Derate Above 25°C	2.94	mW/°C	
Forward Current	60	mA	
– Peak (PW = 100 μs, 120 pps)	1.0	A	
	6.0	V	
Power Dissipation @ T _A = 25°C	90	mW	
Derate Above 25°C	0.8	mW/°C	
Collector Current	150	mA	
Collector–Emitter Voltage	30	V	
Collector–Base Voltage, MOC223M	70		
Emitter–Collector Voltage	7		
Detector Power Dissipation @ T _A = 25°C	150		mW
Derate Above 25°C	1.76	mW/°C	

Stresses exceeding those listed in the Maximum Ratings table may damage the device. If any of these limits are exceeded, device functionality should not be assumed, damage may occur and reliability may be affected.

T_A = 25°C unless otherwise specified.

V _F	Input Forward Voltage	I _F = 1.0 mA	–	1.08	1.3	V
I _R	Reverse Leakage Current	V _R = 6.0 V	–	0.001	100	μA
C _{IN}	Input Capacitance		–	18	–	pF
I _{CEO1}	Collector–Emitter Dark Current	V _{CE} = 5.0 V, T _A = 25°C	–	1.0	50	nA
I _{CEO2}		V _{CE} = 5.0 V, T _A = 100°C	–	1.0	–	μA
BV _{CEO}	Collector–Emitter Breakdown Voltage	I _C = 100 μA	30	100	–	V
BV _{CBO}	Collector–Base Breakdown Voltage	I _C = 100 μA	70	120	–	
BV _{ECO}	Emitter–Collector Breakdown Voltage	I _E = 100 μA	7	10	–	
C _{CE}	Collector–Emitter Capacitance	f = 1.0 MHz, V _{CE} = 0	–	5.5	–	pF

CTR	Current Transfer Ratio	I
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T_A = 25°C unless otherwise specified. (continued)

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V _{ISO}	Input–Output Isolation Voltage	t = 1 min	2500	–	–	VAC _{RMS}
C _{ISO}	Isolation Capacitance	V _{I-O} = 0, f = 1 MHz	–	0.2	–	pF
R _{ISO}	Isolation Resistance	V _{I-O} = ±500 V _{DC} , T _A = 25°C	10 ¹¹	–	–	Ω

Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.

1.8

1.7

1.6

1.5

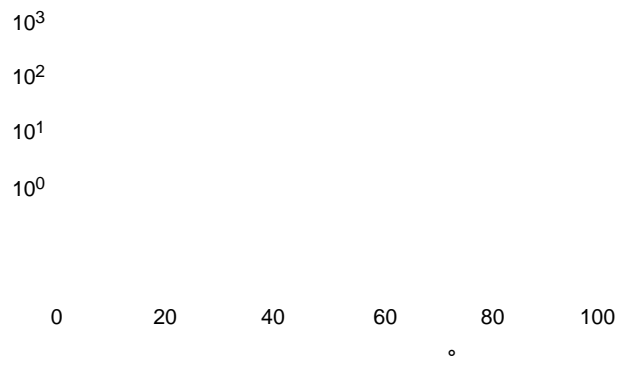
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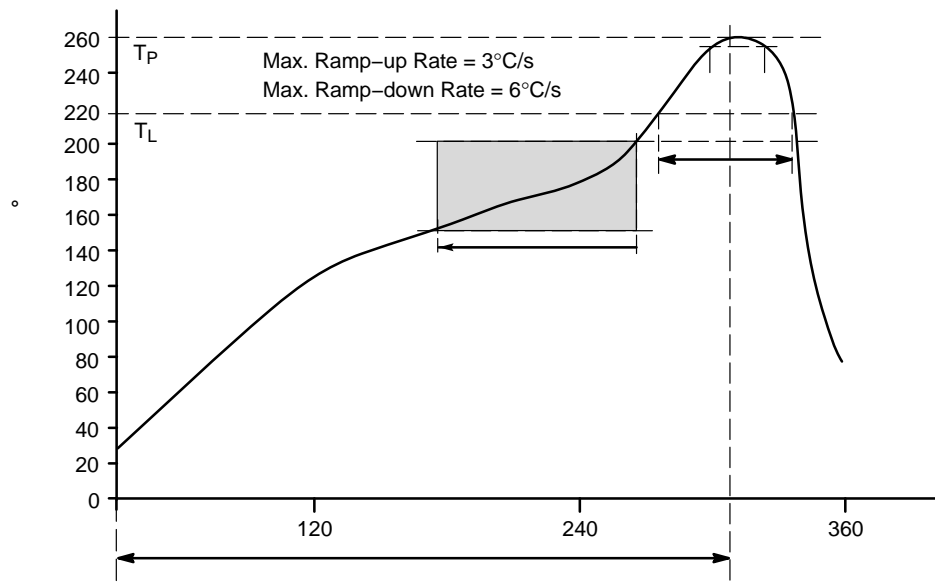
1

10

100

0





		†
MOC223M	Small Outline 8-Pin	50 Units / Tube
MOC223R2M	Small Outline 8-Pin	2500 Units / Tape and Reel
MOC223VM	Small Outline 8-Pin, DIN EN/IEC60747-5-5 Option	50 Units / Tube
MOC223R2VM	Small Outline 8-Pin, DIN EN/IEC60747-5-5 Option	2500 Units / Tape and Reel
MOCD223M	Small Outline 8-Pin	50 Units / Tube
MOCD223R2M	Small Outline 8-Pin	2500 Units / Tape and Reel
MOCD223VM	Small Outline 8-Pin, DIN EN/IEC60747-5-5 Option	50 Units / Tube
MOCD223R2VM	Small Outline 8-Pin, DIN EN/IEC60747-5-5 Option	2500 Units / Tape and Reel

†For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specifications Brochure, BRD8011/D.

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ISSUE O

DATE 30 SEP 2016

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ALL DIMENSIONS

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