



TEST DATA OF MGS3123R3

Regulated DC Power Supply
March 24, 2016

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Shohei Mukaide

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COSEL CO.,LTD.



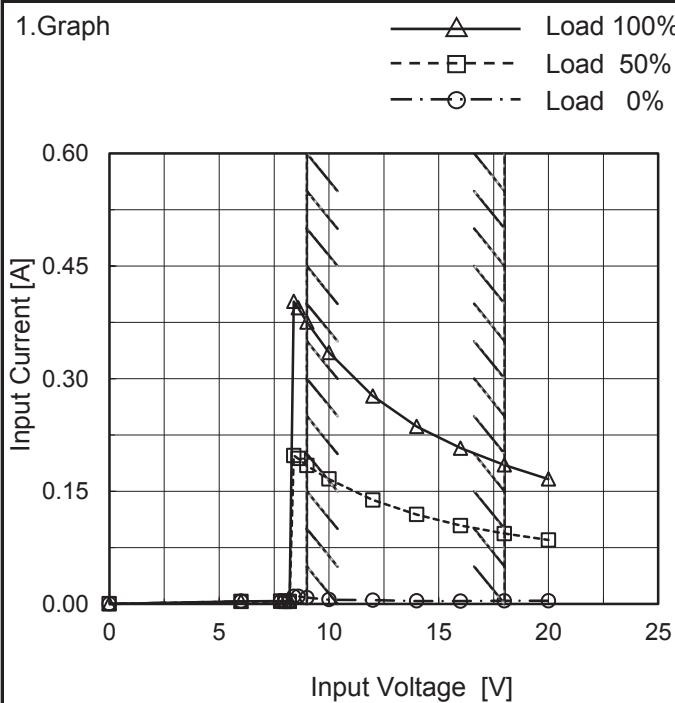
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(Final Page 19)

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Model	MGS3123R3
Item	Input Current (by Input Voltage)
Object	_____



Note: Slanted line shows the range of the rated input voltage.

 Temperature 25°C
 Testing Circuitry Figure A

2. Values

Input Voltage [V]	Input Current [A]		
	Load 0%	Load 50%	Load 100%
0.0	0.000	0.000	0.000
6.0	0.004	0.003	0.003
7.8	0.004	0.003	0.004
8.0	0.003	0.004	0.003
8.2	0.004	0.003	0.004
8.4	0.010	0.198	0.403
8.6	0.010	0.194	0.394
9.0	0.008	0.184	0.375
10.0	0.006	0.166	0.335
12.0	0.005	0.138	0.277
14.0	0.004	0.119	0.236
16.0	0.004	0.104	0.208
18.0	0.004	0.094	0.185
20.0	0.004	0.085	0.166
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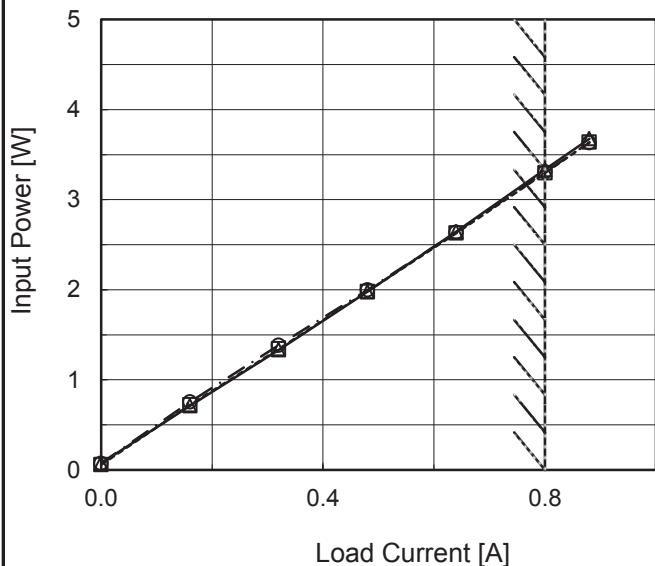
Model	MGS3123R3	Temperature	25°C																																																
Item	Input Current (by Load Current)	Testing Circuitry	Figure A																																																
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1.Graph	<p>Legend:</p> <ul style="list-style-type: none"> —△— Input Volt. 9V - -□--- Input Volt. 12V - ·○--- Input Volt. 18V <table border="1"> <thead> <tr> <th>Load Current [A]</th> <th>Input Volt. 9[V]</th> <th>Input Volt. 12[V]</th> <th>Input Volt. 18[V]</th> </tr> </thead> <tbody> <tr><td>0.00</td><td>0.008</td><td>0.005</td><td>0.004</td></tr> <tr><td>0.16</td><td>0.079</td><td>0.060</td><td>0.042</td></tr> <tr><td>0.32</td><td>0.149</td><td>0.112</td><td>0.077</td></tr> <tr><td>0.48</td><td>0.221</td><td>0.166</td><td>0.111</td></tr> <tr><td>0.64</td><td>0.297</td><td>0.220</td><td>0.147</td></tr> <tr><td>0.80</td><td>0.375</td><td>0.277</td><td>0.185</td></tr> <tr><td>0.88</td><td>0.413</td><td>0.305</td><td>0.203</td></tr> <tr><td>--</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>--</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>--</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>--</td><td>-</td><td>-</td><td>-</td></tr> </tbody> </table>			Load Current [A]	Input Volt. 9[V]	Input Volt. 12[V]	Input Volt. 18[V]	0.00	0.008	0.005	0.004	0.16	0.079	0.060	0.042	0.32	0.149	0.112	0.077	0.48	0.221	0.166	0.111	0.64	0.297	0.220	0.147	0.80	0.375	0.277	0.185	0.88	0.413	0.305	0.203	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-
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2.Values																																																			
Note: Slanted line shows the range of the rated load current.																																																			

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Model	MGS3123R3
Item	Input Power (by Load Current)
Object	

1.Graph

—△— Input Volt. 9V
 - -□--- Input Volt. 12V
 - -○--- Input Volt. 18V



Note: Slanted line shows the range of the rated load current.

 Temperature 25°C
 Testing Circuitry Figure A

2.Values

Load Current [A]	Input Power [W]		
	Input Volt. 9[V]	Input Volt. 12[V]	Input Volt. 18[V]
0.00	0.07	0.06	0.07
0.16	0.71	0.72	0.75
0.32	1.33	1.34	1.38
0.48	1.98	1.98	2.00
0.64	2.65	2.63	2.64
0.80	3.33	3.30	3.31
0.88	3.68	3.64	3.63
--	-	-	-
--	-	-	-
--	-	-	-
--	-	-	-

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Model	MGS3123R3																																	
Item	Efficiency (by Input Voltage)	Temperature 25°C Testing Circuitry Figure A																																
Object																																		
1.Graph																																		
<p>The graph plots Efficiency [%] on the y-axis (50 to 90) against Input Voltage [V] on the x-axis (5 to 25). Two data series are shown: Load 50% (dashed line with square markers) and Load 100% (solid line with triangle markers). Both series show efficiency values between 77% and 80% across the input voltage range of 8.6V to 20V. Two vertical slanted lines indicate the rated input voltage range from approximately 9V to 18V.</p>																																		
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<table border="1"> <thead> <tr> <th rowspan="2">Input Voltage [V]</th> <th colspan="2">Efficiency [%]</th> </tr> <tr> <th>Load 50%</th> <th>Load 100%</th> </tr> </thead> <tbody> <tr> <td>8.6</td> <td>80.0</td> <td>79.3</td> </tr> <tr> <td>9.0</td> <td>80.2</td> <td>79.5</td> </tr> <tr> <td>10.0</td> <td>80.2</td> <td>80.1</td> </tr> <tr> <td>12.0</td> <td>79.9</td> <td>80.4</td> </tr> <tr> <td>15.0</td> <td>79.3</td> <td>80.5</td> </tr> <tr> <td>18.0</td> <td>78.4</td> <td>80.3</td> </tr> <tr> <td>20.0</td> <td>77.8</td> <td>80.0</td> </tr> <tr> <td>--</td> <td>-</td> <td>-</td> </tr> <tr> <td>--</td> <td>-</td> <td>-</td> </tr> </tbody> </table>			Input Voltage [V]	Efficiency [%]		Load 50%	Load 100%	8.6	80.0	79.3	9.0	80.2	79.5	10.0	80.2	80.1	12.0	79.9	80.4	15.0	79.3	80.5	18.0	78.4	80.3	20.0	77.8	80.0	--	-	-	--	-	-
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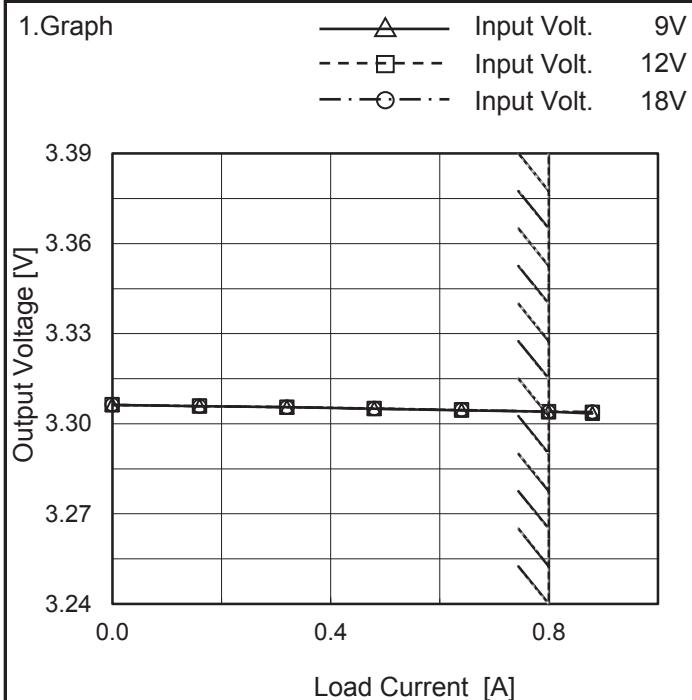
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Item	Efficiency (by Load Current)	Temperature Testing Circuitry	25°C Figure A																																																			
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Model	MGS3123R3	Temperature	25°C																																
Item	Line Regulation	Testing Circuitry	Figure A																																
Object	+3.3V0.8A																																		
1.Graph		2.Values																																	
<p>The graph plots Output Voltage [V] on the y-axis (3.24 to 3.39) against Input Voltage [V] on the x-axis (5 to 25). Two sets of data points are shown: Load 50% (dashed line with square markers) and Load 100% (solid line with triangle markers). Both sets show a constant output voltage of approximately 3.305V across the input range. A slanted line on the graph indicates the rated input voltage range.</p>		<table border="1"> <thead> <tr> <th rowspan="2">Input Voltage [V]</th> <th colspan="2">Output Voltage [V]</th> </tr> <tr> <th>Load 50%</th> <th>Load 100%</th> </tr> </thead> <tbody> <tr><td>8.5</td><td>3.305</td><td>3.304</td></tr> <tr><td>9.0</td><td>3.305</td><td>3.304</td></tr> <tr><td>10.0</td><td>3.305</td><td>3.304</td></tr> <tr><td>12.0</td><td>3.305</td><td>3.304</td></tr> <tr><td>15.0</td><td>3.305</td><td>3.304</td></tr> <tr><td>18.0</td><td>3.305</td><td>3.304</td></tr> <tr><td>20.0</td><td>3.305</td><td>3.304</td></tr> <tr><td>--</td><td>-</td><td>-</td></tr> <tr><td>--</td><td>-</td><td>-</td></tr> </tbody> </table>		Input Voltage [V]	Output Voltage [V]		Load 50%	Load 100%	8.5	3.305	3.304	9.0	3.305	3.304	10.0	3.305	3.304	12.0	3.305	3.304	15.0	3.305	3.304	18.0	3.305	3.304	20.0	3.305	3.304	--	-	-	--	-	-
Input Voltage [V]	Output Voltage [V]																																		
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Model	MGS3123R3
Item	Load Regulation
Object	+3.3V0.8A


 Temperature 25°C
 Testing Circuitry Figure A

2. Values

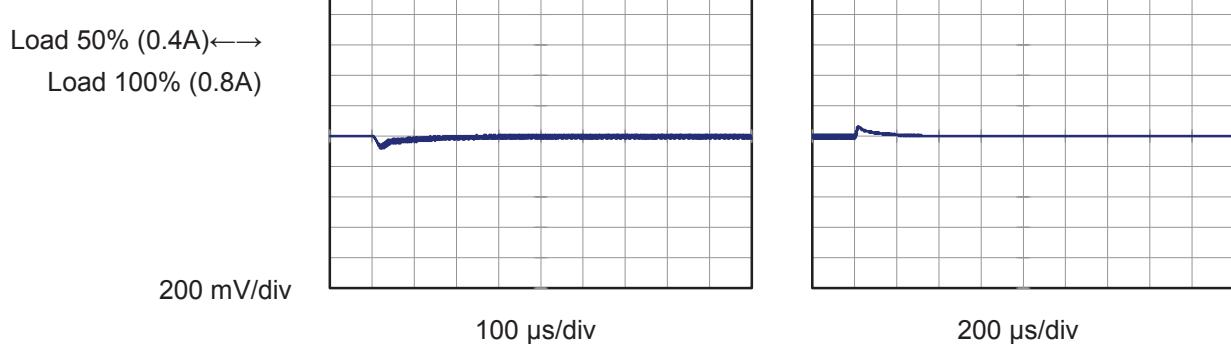
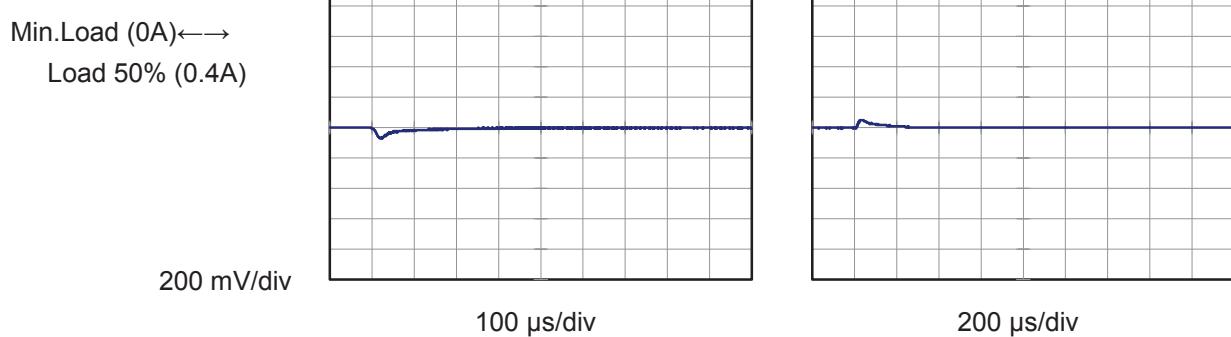
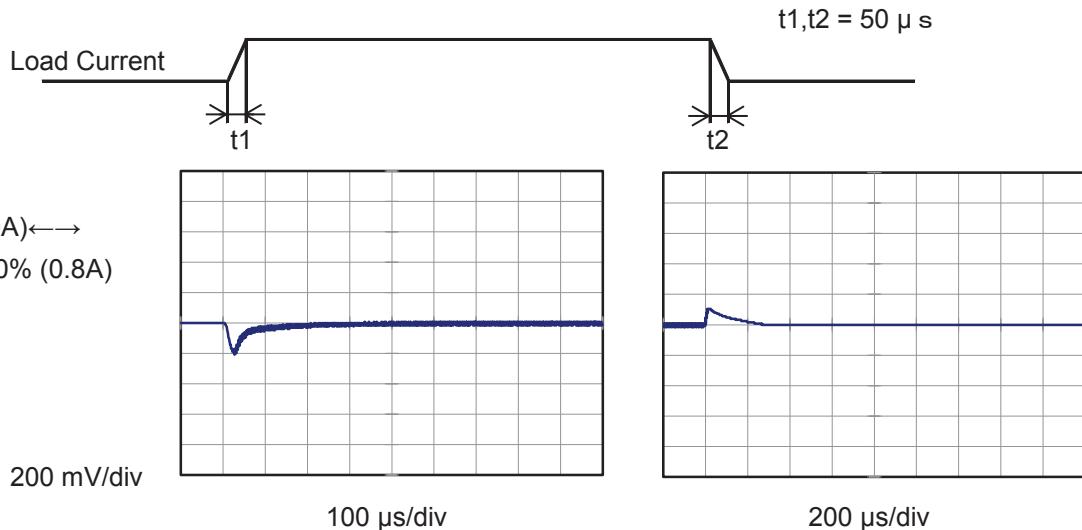
Load Current [A]	Output Voltage [V]		
	Input Volt. 9[V]	Input Volt. 12[V]	Input Volt. 18[V]
0.00	3.306	3.306	3.306
0.16	3.306	3.306	3.306
0.32	3.306	3.306	3.306
0.48	3.305	3.305	3.305
0.64	3.305	3.305	3.305
0.80	3.304	3.304	3.304
0.88	3.303	3.304	3.304
--	-	-	-
--	-	-	-
--	-	-	-
--	-	-	-

Note: Slanted line shows the range of the rated load current.

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Model	MGS3123R3	Temperature	25°C
Item	Dynamic Load Response	Testing Circuitry	Figure A
Object	+3.3V0.8A		

Input Volt. 12 V
 Cycle 1000 ms



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Model	MGS3123R3																																							
Item	Ripple Voltage (by Load Current)	Temperature 25°C Testing Circuitry Figure B																																						
Object	+3.3V0.8A																																							
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<p>—△— Input Volt. 9V -·○- Input Volt. 18V</p> <p>Ripple Voltage [mV]</p> <p>Load Current [A]</p>																																								
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<p>Measured by 100 MHz Oscilloscope. Ripple Voltage is shown as p-p in the figure below. Note: Slanted line shows the range of the rated load current.</p> <p>Ripple [mVp-p]</p> <p>Fig.Complex Ripple Wave Form</p>																																								

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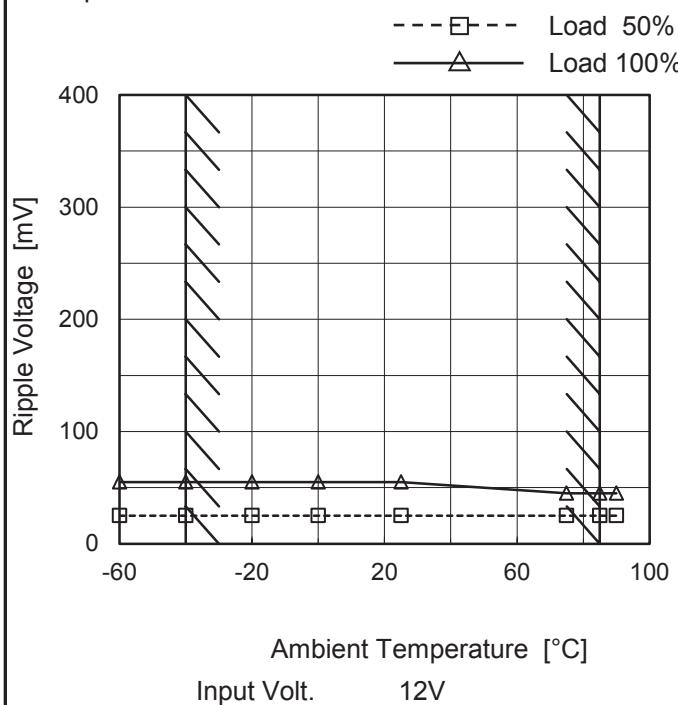
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Item	Ripple-Noise	Temperature 25°C Testing Circuitry Figure B																																						
Object	+3.3V0.8A																																							
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<p>Graph showing Ripple Voltage [mV] vs Load Current [A]. The Y-axis ranges from 0 to 400 mV, and the X-axis ranges from 0 to 1 A. Two curves are plotted: one for Input Volt. 9V (solid line with open triangle markers) and one for Input Volt. 18V (dashed line with open circle markers). Both curves show an increase in ripple voltage as load current increases, with a sharp rise near the rated load current of 0.8A.</p> <table border="1"> <thead> <tr> <th>Load Current [A]</th> <th>Ripple Voltage [mV] (9V)</th> <th>Ripple Voltage [mV] (18V)</th> </tr> </thead> <tbody> <tr><td>0.00</td><td>10</td><td>15</td></tr> <tr><td>0.16</td><td>25</td><td>20</td></tr> <tr><td>0.32</td><td>35</td><td>20</td></tr> <tr><td>0.48</td><td>45</td><td>35</td></tr> <tr><td>0.64</td><td>60</td><td>40</td></tr> <tr><td>0.80</td><td>85</td><td>50</td></tr> <tr><td>0.88</td><td>90</td><td>60</td></tr> </tbody> </table>			Load Current [A]	Ripple Voltage [mV] (9V)	Ripple Voltage [mV] (18V)	0.00	10	15	0.16	25	20	0.32	35	20	0.48	45	35	0.64	60	40	0.80	85	50	0.88	90	60														
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<p>Ripple Noise[mVp-p]</p> <p>Fig.Complex Ripple Noise Wave Form</p>																																								

COSEL

Model	MGS3123R3
Item	Ripple Voltage (by Ambient Temp.)
Object	+3.3V0.8A

Testing Circuitry Figure B

1. Graph



Measured by 100 MHz Oscilloscope.

Note: Slanted line shows the range of the rated ambient temperature.

2. Values

Ambient Temperature [°C]	Ripple Voltage [mV]	
	Load 50%	Load 100%
-60	25	55
-40	25	55
-20	25	55
0	25	55
25	25	55
75	25	45
85	25	45
90	25	45
--	-	-
--	-	-
--	-	-

COSEL

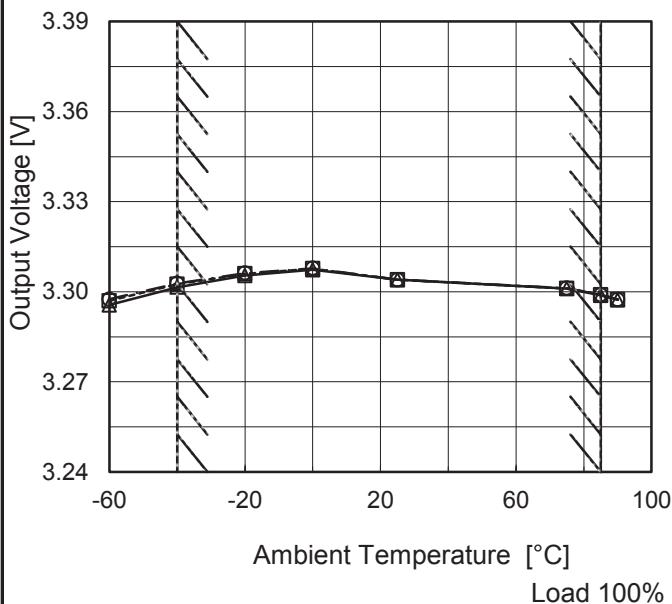
Model MGS3123R3

Item Ambient Temperature Drift

Object +3.3V0.8A

1.Graph

—△— Input Volt. 9V
 - - - □ - - Input Volt. 12V
 - - ○ - - Input Volt. 18V



Note: Slanted line shows the range of the rated ambient temperature.

Testing Circuitry Figure A

2.Values

Ambient Temperature [°C]	Output Voltage [V]		
	Input Volt. 9[V]	Input Volt. 12[V]	Input Volt. 18[V]
-60	3.296	3.297	3.298
-40	3.302	3.303	3.303
-20	3.305	3.306	3.306
0	3.307	3.308	3.308
25	3.304	3.304	3.304
75	3.301	3.301	3.301
85	3.299	3.299	3.299
90	3.297	3.297	3.297
--	-	-	-
--	-	-	-
--	-	-	-



Model	MGS3123R3	Testing Circuitry Figure A
Item	Output Voltage Accuracy	
Object	+3.3V0.8A	

1. Output Voltage Accuracy

This is defined as the value of the output voltage, regulation load, ambient temperature and input voltage varied at random in the range as specified below.

Temperature : -40 - 85°C

Input Voltage : 9 - 18V

Load Current : 0 - 0.8A

* Output Voltage Accuracy = $\pm(\text{Maximum of Output Voltage} - \text{Minimum of Output Voltage}) / 2$

$$\text{* Output Voltage Accuracy (Ratio)} = \frac{\text{Output Voltage Accuracy}}{\text{Rated Output Voltage}} \times 100$$

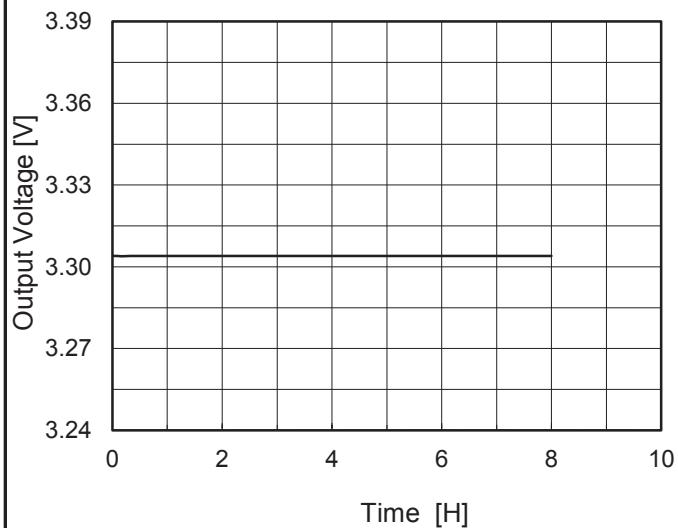
2. Values

Item	Temperature [°C]	Input Voltage[V]	Output		Output Voltage Accuracy	
			Current[A]	Voltage[V]	Value [mV]	Ratio [%]
Maximum Voltage	0	9	0	3.310	± 6	± 0.2
Minimum Voltage	85	9	0.8	3.299		

COSEL

Model	MGS3123R3	Temperature	25°C
Item	Time Lapse Drift	Testing Circuitry	Figure A
Object	+3.3V0.8A		

1.Graph



Input Volt. 12V
Load 100%

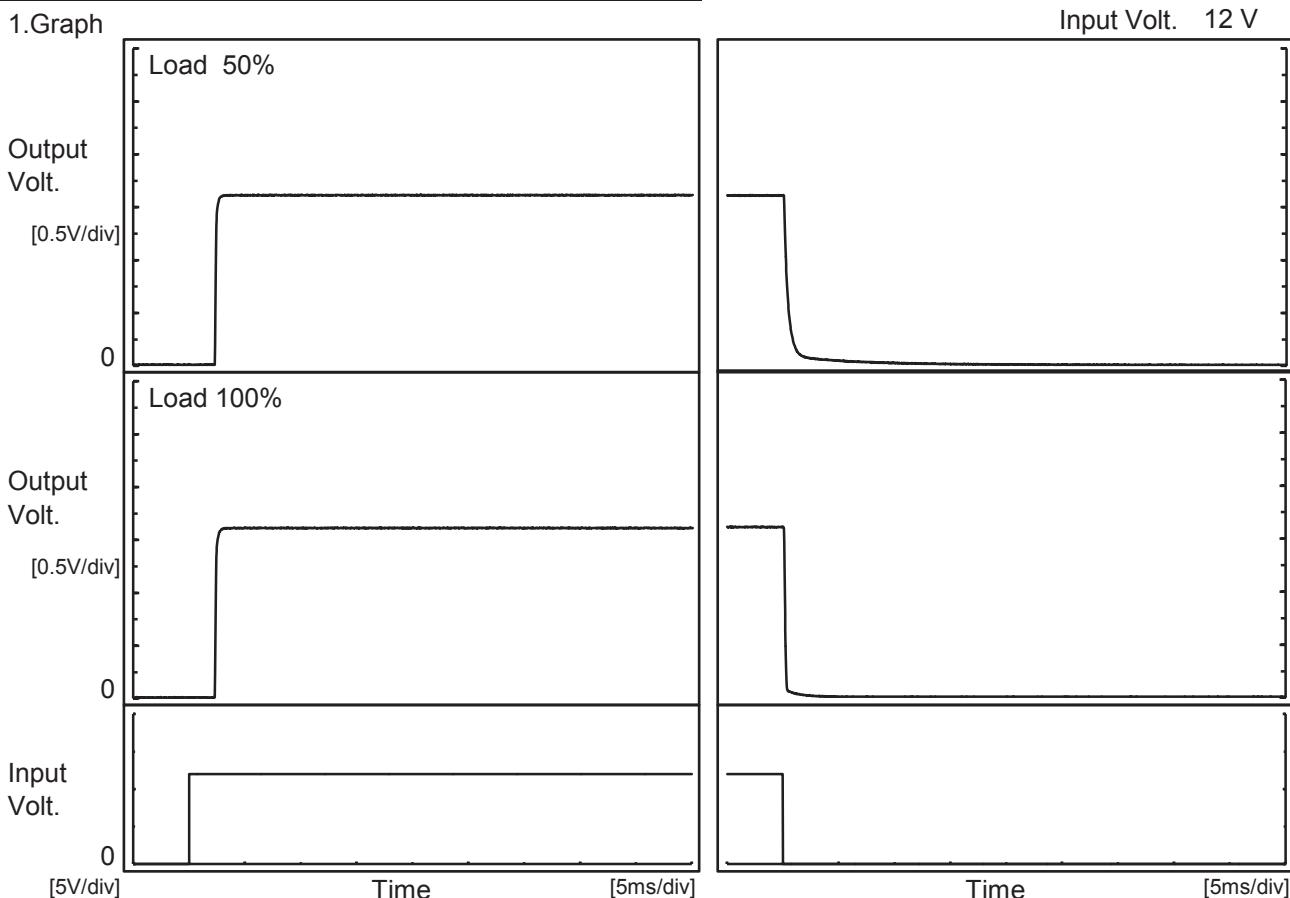
2.Values

Time since start [H]	Output Voltage [V]
0.0	3.304
0.5	3.304
1.0	3.304
2.0	3.304
3.0	3.304
4.0	3.304
5.0	3.304
6.0	3.304
7.0	3.304
8.0	3.304

COSEL

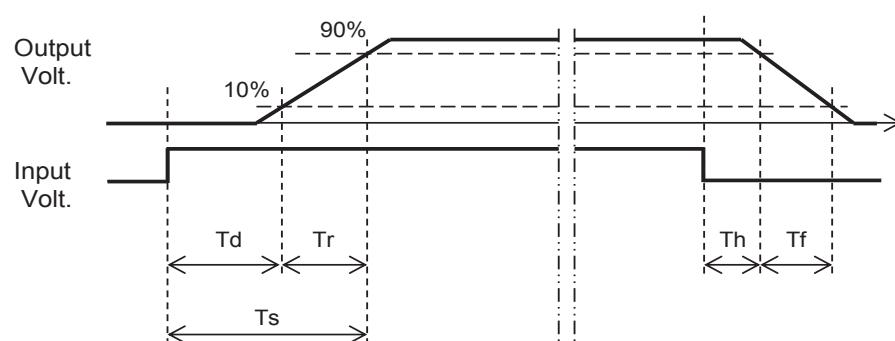
Model	MGS3123R3	Temperature	25°C
Item	Rise and Fall Time	Testing Circuitry	Figure A
Object	+3.3V0.8A		

1. Graph



2. Values

Load	Time	Td	Tr	Ts	Th	Tf
50 %		2.3	0.2	2.5	0.1	1.0
100 %		2.3	0.2	2.5	0.1	0.2

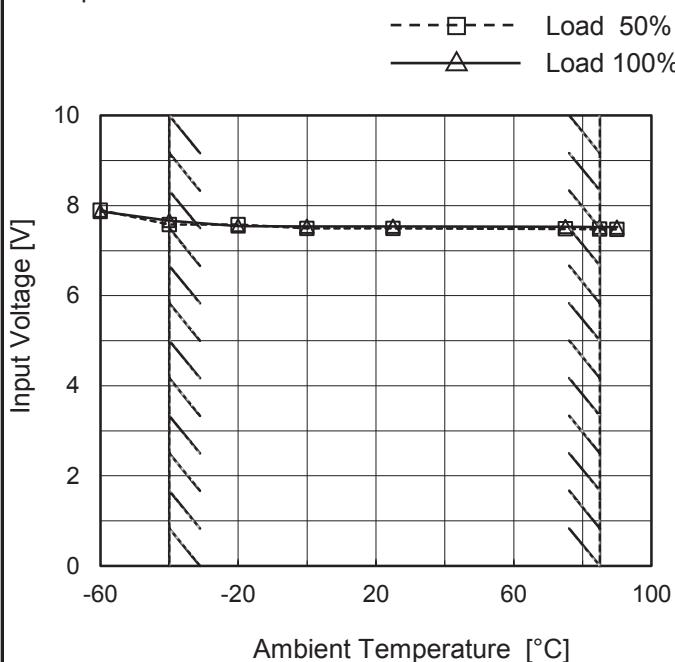


COSEL

Model	MGS3123R3
Item	Minimum Input Voltage for Regulated Output Voltage
Object	+3.3V0.8A

Testing Circuitry Figure A

1. Graph



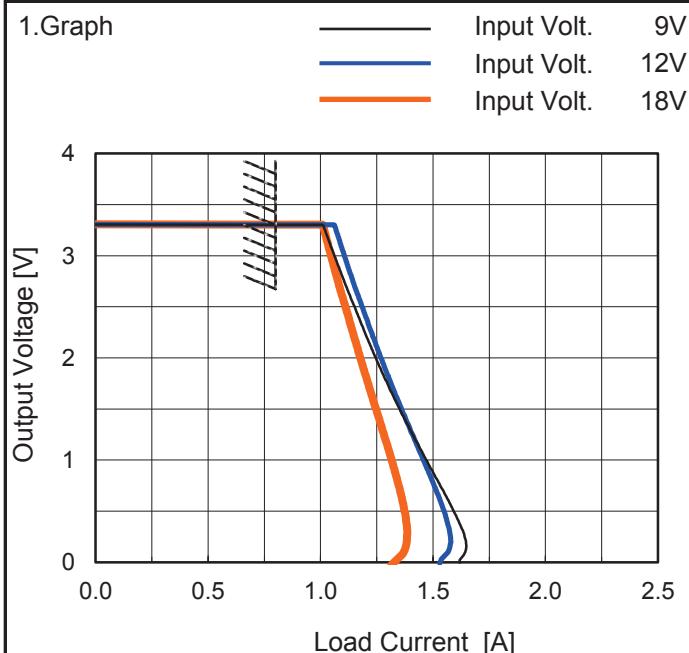
Note: Slanted line shows the range of the rated ambient temperature.

2. Values

Ambient Temperature [°C]	Input Voltage [V]	
	Load 50%	Load 100%
-60	7.9	7.9
-40	7.6	7.7
-20	7.6	7.6
0	7.5	7.6
25	7.5	7.6
75	7.5	7.6
85	7.5	7.6
90	7.5	7.6
--	-	-
--	-	-
--	-	-

COSEL

Model	MGS3123R3
Item	Overcurrent Protection
Object	+3.3V0.8A



Note: Slanted line shows the range of the rated load current.

Temperature 25°C
Testing Circuitry Figure A

2.Values

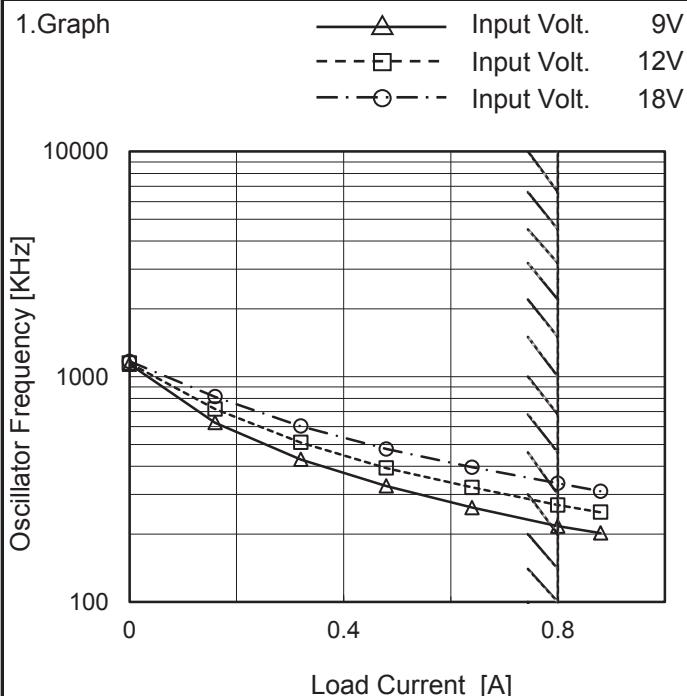
Output Voltage [V]	Load Current [A]		
	Input Volt. 9[V]	Input Volt. 12[V]	Input Volt. 18[V]
3.30	0.80	0.80	0.80
3.14	1.04	1.09	1.03
2.97	1.07	1.11	1.05
2.64	1.12	1.16	1.09
2.31	1.19	1.21	1.13
1.98	1.25	1.27	1.18
1.65	1.32	1.33	1.23
1.32	1.39	1.39	1.27
0.99	1.47	1.46	1.32
0.66	1.55	1.52	1.36
0.33	1.63	1.57	1.38
0.00	1.62	1.53	1.31

COSEL

Model	MGS3123R3
Item	Switching frequency (by Load Current)
Object	+3.3V0.8A

 Temperature 25°C
 Testing Circuitry Figure A

1.Graph



2.Values

Load Current [A]	Frequency [kHz]		
	Input Volt. 9[V]	Input Volt. 12[V]	Input Volt. 18[V]
0.00	1135	1148	1170
0.16	625	718	815
0.32	429	510	603
0.48	327	393	477
0.64	262	322	396
0.80	217	269	336
0.88	202	250	310
--	-	-	-
--	-	-	-
--	-	-	-
--	-	-	-

Note: Slanted line shows the range of the rated load current.

-When load current is low, MG operates intermittently, so switching frequency would not become constant.

