



TEST DATA OF SUS3053R3

Regulated DC Power Supply
Mar 22, 2005

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COSEL CO.,LTD.

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(Final Page 18)

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Model

SUS3053R3

Item

Input Current (by Input Voltage)

Object

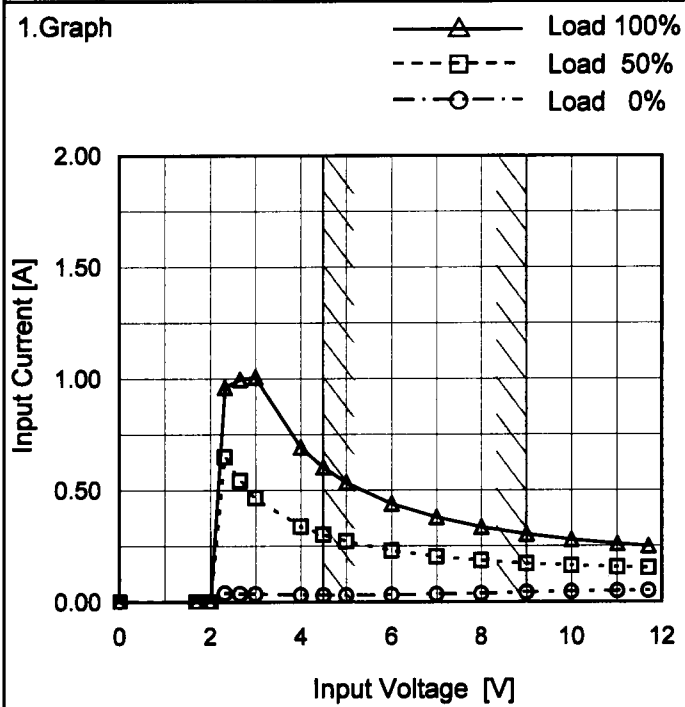
Temperature

25°C

Testing Circuitry

Figure A

1. Graph

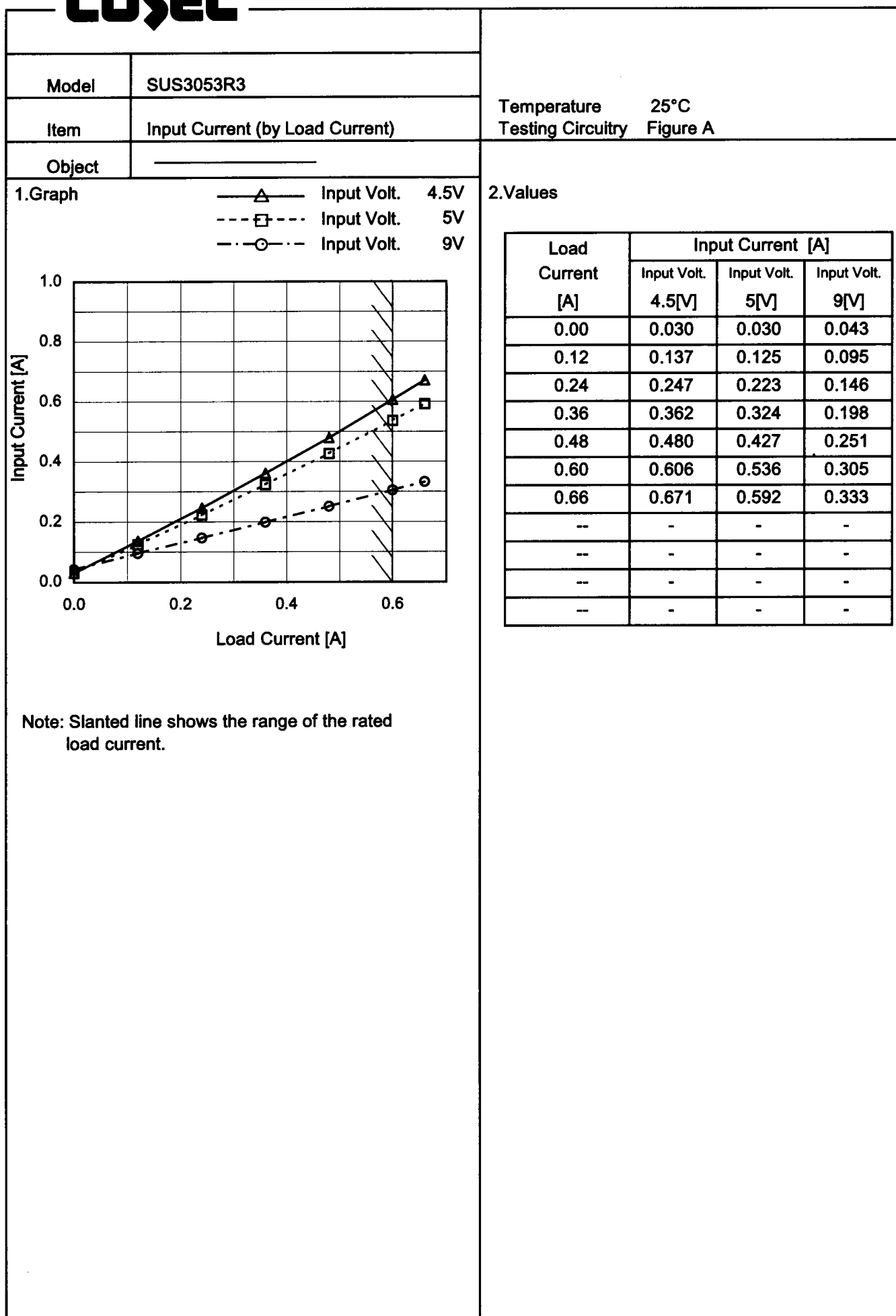


Note: Slanted line shows the range of the rated input voltage.

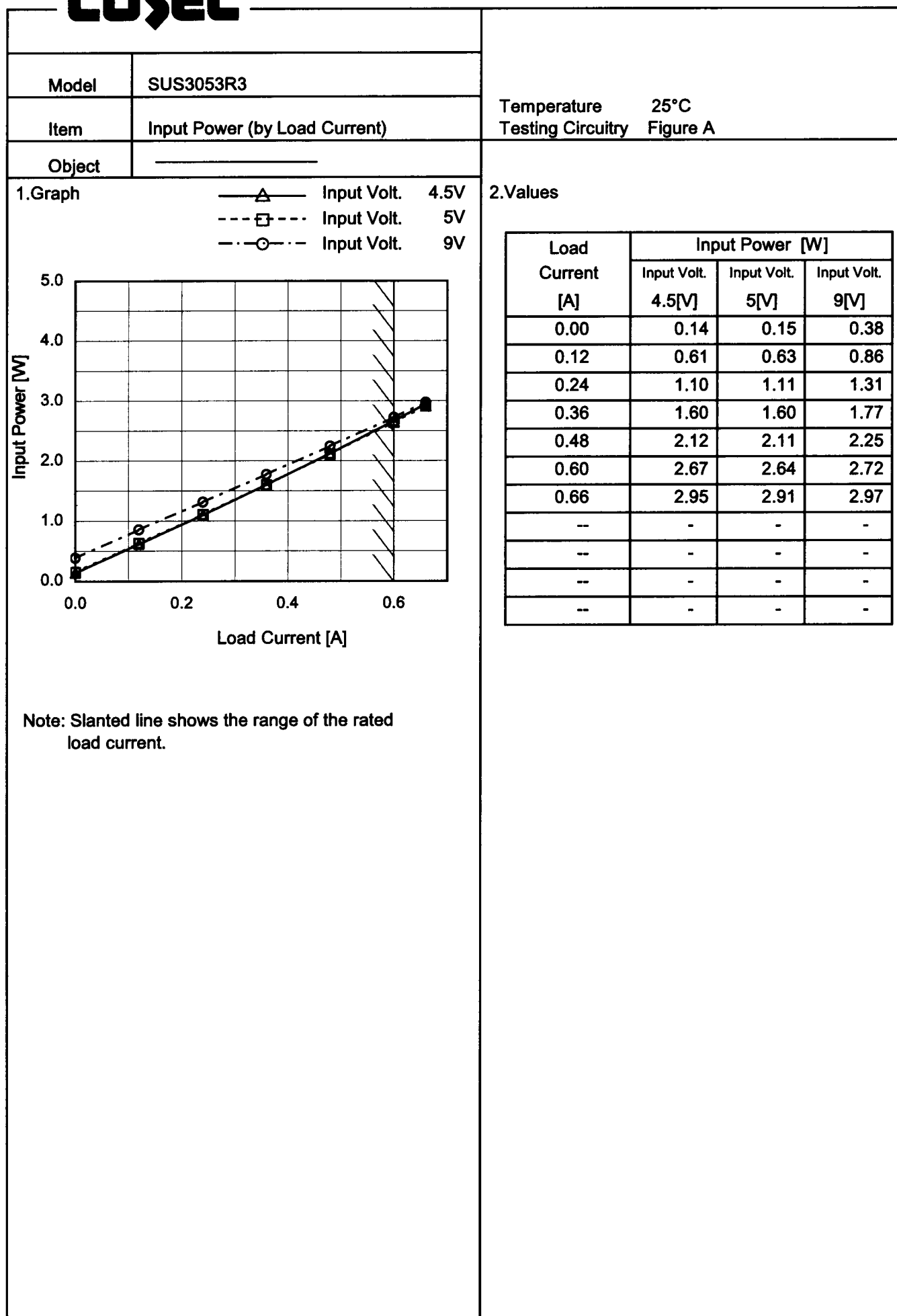
2. Values

Input Voltage [V]	Input Current [A]		
	Load 0%	Load 50%	Load 100%
0.00	0.000	0.000	0.000
1.70	0.000	0.000	0.000
2.00	0.000	0.000	0.000
2.32	0.040	0.649	0.962
2.66	0.037	0.543	0.997
3.00	0.036	0.467	1.007
4.00	0.031	0.338	0.693
4.50	0.030	0.302	0.603
5.00	0.030	0.271	0.534
6.00	0.032	0.230	0.439
7.00	0.034	0.203	0.379
8.00	0.038	0.185	0.335
9.00	0.042	0.172	0.304
10.00	0.046	0.162	0.279
11.02	0.049	0.155	0.260
11.70	0.050	0.152	0.250
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--	-	-	-

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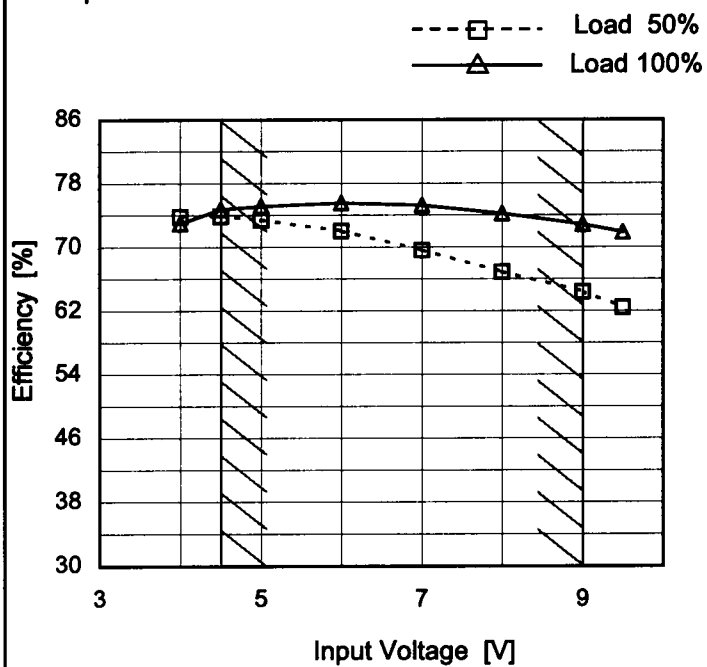
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Model SUS3053R3

Item Efficiency (by Input Voltage)

Object
Temperature 25°C
Testing Circuitry Figure A

1. Graph



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

2. Values

Input Voltage [V]	Efficiency [%]	
	Load 50%	Load 100%
4.0	73.9	73.0
4.5	73.9	74.7
5.0	73.4	75.1
6.0	72.0	75.6
7.0	69.6	75.3
8.0	66.9	74.2
9.0	64.4	72.8
9.5	62.4	71.9
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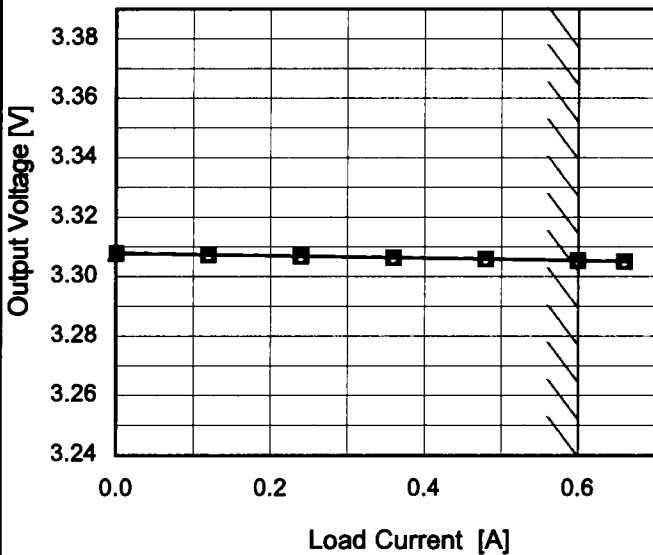
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Model	SUS3053R3	Temperature 25°C Testing Circuitry Figure A																																																				
Item	Efficiency (by Load Current)																																																					
Object																																																						
1.Graph		2.Values																																																				
<div><div>—△— Input Volt. 4.5V</div><div>- - □ - - Input Volt. 5V</div><div>- - ○ - - Input Volt. 9V</div></div> <p>Note: Slanted line shows the range of the rated load current.</p>		<table><tr><th rowspan="2">Load Current [A]</th><th colspan="3">Efficiency [%]</th></tr><tr><th>Input Volt. 4.5[V]</th><th>Input Volt. 5[V]</th><th>Input Volt. 9[V]</th></tr><tr><td>0.00</td><td>-</td><td>-</td><td>-</td></tr><tr><td>0.12</td><td>64.5</td><td>63.2</td><td>46.3</td></tr><tr><td>0.24</td><td>72.2</td><td>71.5</td><td>60.4</td></tr><tr><td>0.36</td><td>74.1</td><td>74.2</td><td>67.0</td></tr><tr><td>0.48</td><td>74.6</td><td>75.0</td><td>70.6</td></tr><tr><td>0.60</td><td>74.3</td><td>75.1</td><td>72.8</td></tr><tr><td>0.66</td><td>74.0</td><td>75.0</td><td>73.3</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></table>		Load Current [A]	Efficiency [%]			Input Volt. 4.5[V]	Input Volt. 5[V]	Input Volt. 9[V]	0.00	-	-	-	0.12	64.5	63.2	46.3	0.24	72.2	71.5	60.4	0.36	74.1	74.2	67.0	0.48	74.6	75.0	70.6	0.60	74.3	75.1	72.8	0.66	74.0	75.0	73.3	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-
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Model	SUS3053R3																																
Item	Line Regulation	Temperature	25°C																														
Object	+3.3V0.6A	Testing Circuitry	Figure A																														
1.Graph		2.Values																															
<div><div><div>---□---</div><div>Load 50%</div></div><div><div>—△—</div><div>Load 100%</div></div></div> <table><thead><tr><th>Input Voltage [V]</th><th>Output Voltage [V] Load 50%</th><th>Output Voltage [V] Load 100%</th></tr></thead><tbody><tr><td>4.0</td><td>3.307</td><td>3.305</td></tr><tr><td>4.5</td><td>3.307</td><td>3.305</td></tr><tr><td>5.0</td><td>3.307</td><td>3.305</td></tr><tr><td>6.0</td><td>3.307</td><td>3.305</td></tr><tr><td>7.0</td><td>3.307</td><td>3.305</td></tr><tr><td>8.0</td><td>3.307</td><td>3.305</td></tr><tr><td>9.0</td><td>3.307</td><td>3.305</td></tr><tr><td>9.5</td><td>3.307</td><td>3.305</td></tr><tr><td>--</td><td>-</td><td>-</td></tr></tbody></table>		Input Voltage [V]	Output Voltage [V] Load 50%	Output Voltage [V] Load 100%	4.0	3.307	3.305	4.5	3.307	3.305	5.0	3.307	3.305	6.0	3.307	3.305	7.0	3.307	3.305	8.0	3.307	3.305	9.0	3.307	3.305	9.5	3.307	3.305	--	-	-		
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<div><div><div>—△—</div><div>Input Volt.</div><div>4.5V</div></div><div><div>---□---</div><div>Input Volt.</div><div>5V</div></div><div><div>-·-○-·-</div><div>Input Volt.</div><div>9V</div></div></div>  <p>Output Voltage [V]</p> <p>Load Current [A]</p> <p>Note: Slanted line shows the range of the rated load current.</p>		<table><tr><th rowspan="2">Load Current [A]</th><th colspan="3">Output Voltage [V]</th></tr><tr><th>Input Volt. 4.5[V]</th><th>Input Volt. 5[V]</th><th>Input Volt. 9[V]</th></tr><tr><td>0.00</td><td>3.308</td><td>3.308</td><td>3.308</td></tr><tr><td>0.12</td><td>3.307</td><td>3.307</td><td>3.307</td></tr><tr><td>0.24</td><td>3.307</td><td>3.307</td><td>3.307</td></tr><tr><td>0.36</td><td>3.306</td><td>3.306</td><td>3.306</td></tr><tr><td>0.48</td><td>3.306</td><td>3.306</td><td>3.306</td></tr><tr><td>0.60</td><td>3.305</td><td>3.305</td><td>3.305</td></tr><tr><td>0.66</td><td>3.305</td><td>3.305</td><td>3.305</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></table>		Load Current [A]	Output Voltage [V]			Input Volt. 4.5[V]	Input Volt. 5[V]	Input Volt. 9[V]	0.00	3.308	3.308	3.308	0.12	3.307	3.307	3.307	0.24	3.307	3.307	3.307	0.36	3.306	3.306	3.306	0.48	3.306	3.306	3.306	0.60	3.305	3.305	3.305	0.66	3.305	3.305	3.305	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-
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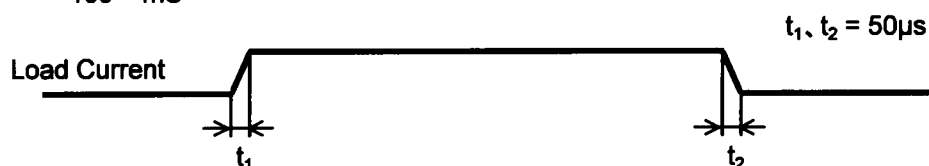
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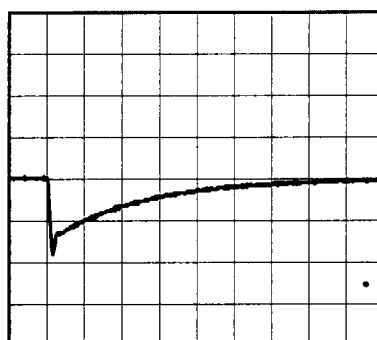
Model	SUS3053R3	Temperature	25°C
Item	Dynamic Load Response	Testing Circuitry	Figure A
Object	+3.3V0.6A		

Input Volt. 5 V
Cycle 100 mS

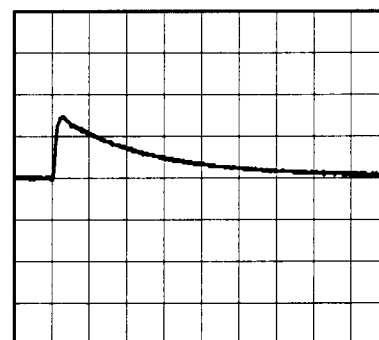


Min. Load (0A) \longleftrightarrow
Load 100% (0.6A)

100mV/div



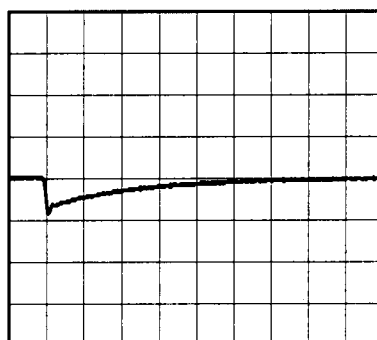
200µs/div



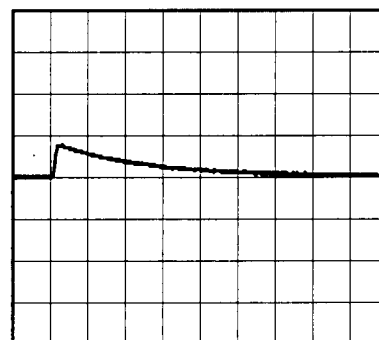
200µs/div

Min. Load (0A) \longleftrightarrow
Load 50% (0.3A)

100mV/div



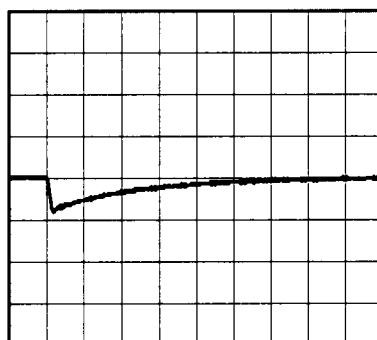
200µs/div



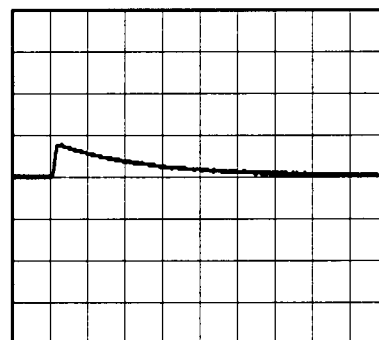
200µs/div

Load 50% (0.3A) \longleftrightarrow
Load 100% (0.6A)

100mV/div



200µs/div



200µs/div

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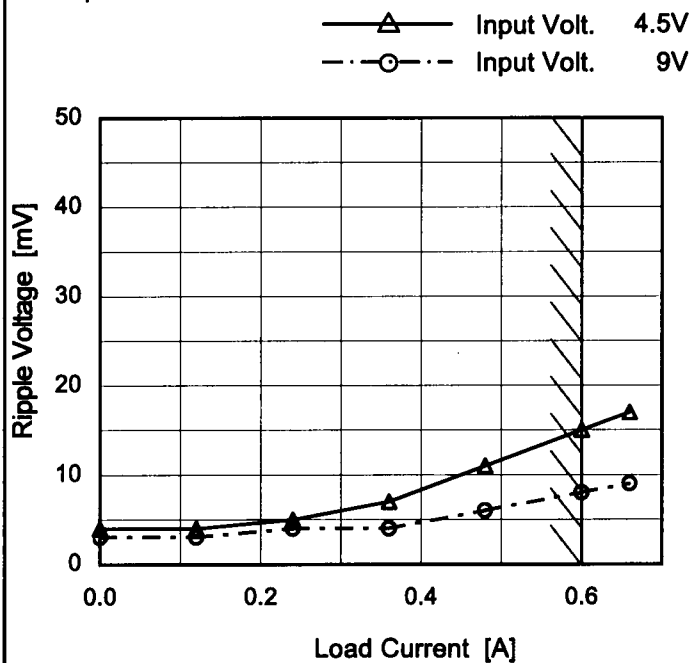
Model SUS3053R3

Item Ripple Voltage (by Load Current)

Object +3.3V0.6A

Temperature 25°C
Testing Circuitry Figure B

1.Graph



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.

Ripple [mVp-p]

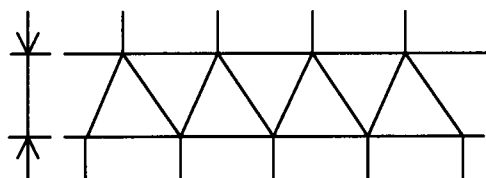


Fig.Complex Ripple Wave Form

2.Values

Load Current [A]	Ripple Voltage [mV]	
	Input Volt. 4.5 [V]	Input Volt. 9 [V]
0.00	4	3
0.12	4	3
0.24	5	4
0.36	7	4
0.48	11	6
0.60	15	8
0.66	17	9
--	-	-
--	-	-
--	-	-
--	-	-

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Model	SUS3053R3																																								
Item	Ripple-Noise	Temperature	25°C																																						
Object	+3.3V0.6A	Testing Circuitry	Figure B																																						
1.Graph		2.Values																																							
<div><div><div><div><div></div><div>—△—</div><div>Input Volt. 4.5V</div></div><div><div>---○---</div><div>Input Volt. 9V</div></div></div><div><p>Y-axis: Ripple-Noise [mV] (0 to 50) X-axis: Load Current [A] (0.0 to 0.6)</p></div></div><div><p>Measured by 100 MHz Oscilloscope.</p><p>Ripple-Noise is shown as p-p in the figure below.</p><p>Note: Slanted line shows the range of the rated load current.</p></div><div><div><div><div></div><div>Ripple Noise[mVp-p]</div></div><div></div></div><p>Fig.Complex Ripple Noise Wave Form</p></div></div>		<table><tr><th rowspan="2">Load Current [A]</th><th colspan="2">Ripple-Noise [mV]</th></tr><tr><th>Input Volt. 4.5 [V]</th><th>Input Volt. 9 [V]</th></tr><tr><td>0.00</td><td>5</td><td>6</td></tr><tr><td>0.12</td><td>8</td><td>8</td></tr><tr><td>0.24</td><td>11</td><td>11</td></tr><tr><td>0.36</td><td>13</td><td>12</td></tr><tr><td>0.48</td><td>15</td><td>14</td></tr><tr><td>0.60</td><td>18</td><td>16</td></tr><tr><td>0.66</td><td>19</td><td>16</td></tr><tr><td>--</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td></tr></table>		Load Current [A]	Ripple-Noise [mV]		Input Volt. 4.5 [V]	Input Volt. 9 [V]	0.00	5	6	0.12	8	8	0.24	11	11	0.36	13	12	0.48	15	14	0.60	18	16	0.66	19	16	--	-	-	--	-	-	--	-	-	--	-	-
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Model

SUS3053R3

Item

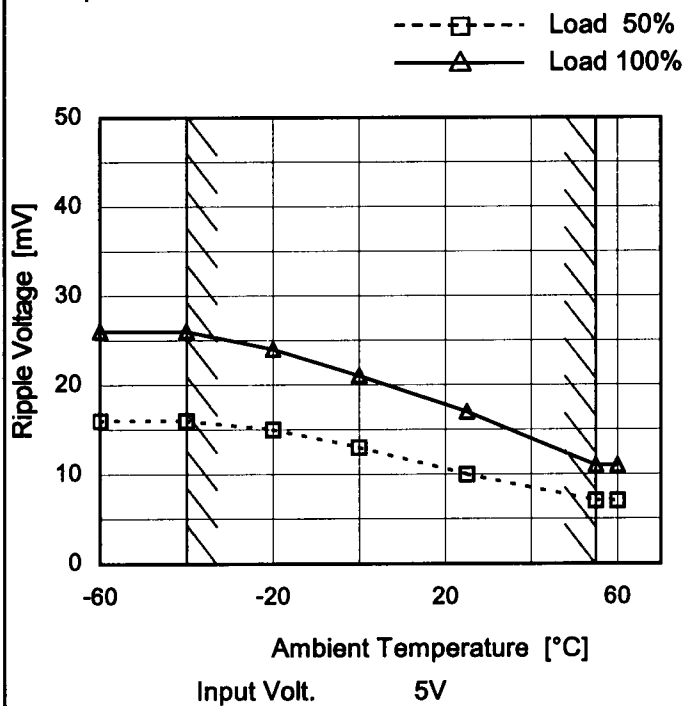
Ripple Voltage (by Ambient Temp.)

Object

+3.3V0.6A

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	16	26
-40	16	26
-20	15	24
0	13	21
25	10	17
55	7	11
60	7	11
--	-	-
--	-	-
--	-	-
--	-	-

Model		SUS3053R3																																																				
Item		Ambient Temperature Drift																																																				
Object		+3.3V0.6A																																																				
1.Graph		2.Values																																																				
<div><div><div>—△—</div><div>Input Volt.</div><div>4.5V</div></div><div><div>---□---</div><div>Input Volt.</div><div>5V</div></div><div><div>-·-○-·-</div><div>Input Volt.</div><div>9V</div></div></div> <div><p>Output Voltage [V]</p><p>Ambient Temperature [°C]</p><p>Load 100%</p></div>		<table><tr><th rowspan="2">Ambient Temperature [°C]</th><th colspan="3">Output Voltage [V]</th></tr><tr><th>Input Volt. 4.5[V]</th><th>Input Volt. 5[V]</th><th>Input Volt. 9[V]</th></tr><tr><td>-60</td><td>3.289</td><td>3.290</td><td>3.290</td></tr><tr><td>-40</td><td>3.298</td><td>3.298</td><td>3.298</td></tr><tr><td>-20</td><td>3.303</td><td>3.303</td><td>3.303</td></tr><tr><td>0</td><td>3.305</td><td>3.305</td><td>3.305</td></tr><tr><td>25</td><td>3.305</td><td>3.305</td><td>3.305</td></tr><tr><td>55</td><td>3.302</td><td>3.302</td><td>3.302</td></tr><tr><td>60</td><td>3.301</td><td>3.301</td><td>3.301</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></table>		Ambient Temperature [°C]	Output Voltage [V]			Input Volt. 4.5[V]	Input Volt. 5[V]	Input Volt. 9[V]	-60	3.289	3.290	3.290	-40	3.298	3.298	3.298	-20	3.303	3.303	3.303	0	3.305	3.305	3.305	25	3.305	3.305	3.305	55	3.302	3.302	3.302	60	3.301	3.301	3.301	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-
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		Testing Circuitry Figure A
Model	SUS3053R3	
Item	Output Voltage Accuracy	
Object	+3.3V0.6A	

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 - 55°C

Input Voltage : 4.5 - 9V

Load Current : 0 - 0.6A

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

* 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	25	9	0	3.308	±5	±0.2
Minimum Voltage	-40	4.5	0.6	3.298		

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Model	SUS3053R3		
Item	Time Lapse Drift	Temperature	25°C
Object	+3.3V0.6A	Testing Circuitry	Figure A
1.Graph		2.Values	
<div><div><div>Output Voltage [V]</div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><di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v><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div></div></div>			

COSEL

Model

SUS3053R3

Item

Rise and Fall Time

Temperature

25°C

Testing Circuitry

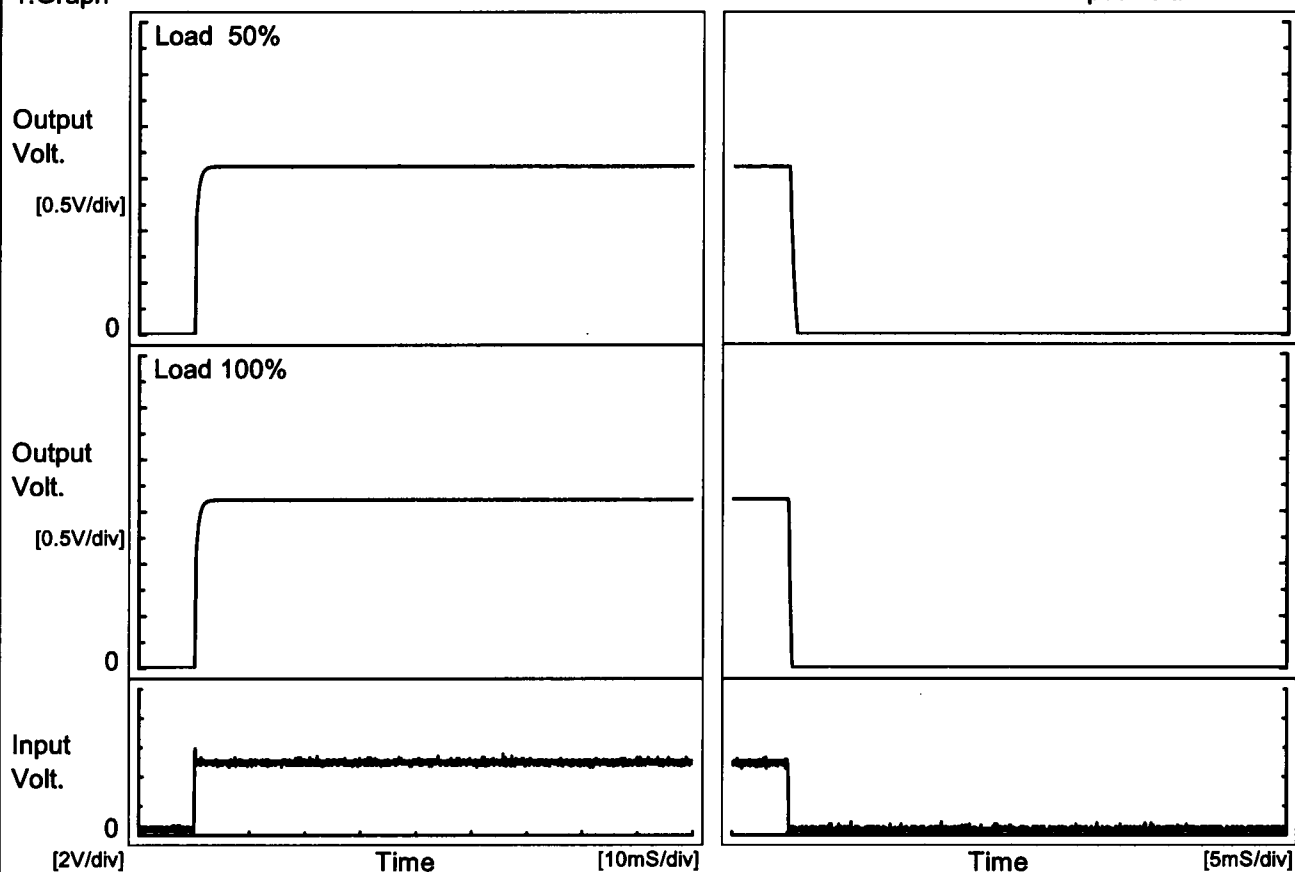
Figure A

Object

+3.3V0.6A

1.Graph

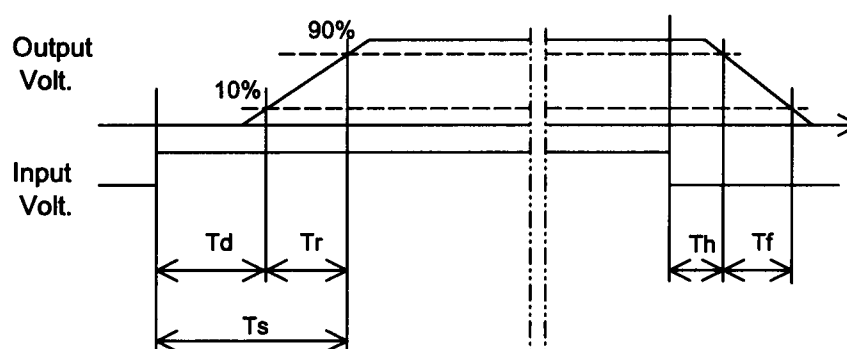
Input Volt. 5 V



2.Values

[mS]

Load \ Time	Td	Tr	Ts	Th	Tf
50 %	0.1	1.0	1.1	0.1	0.6
100 %	0.1	1.1	1.2	0.1	0.3



Model

SUS3053R3

Item

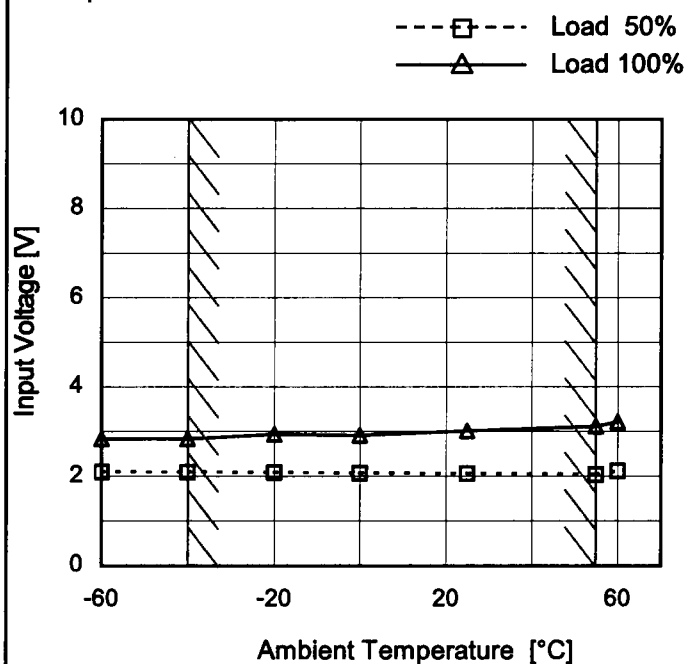
Minimum Input Voltage
for Regulated Output Voltage

Object

+3.3V0.6A

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	2.1	2.9
-40	2.1	2.9
-20	2.1	3.0
0	2.1	3.0
25	2.1	3.1
55	2.1	3.2
60	2.2	3.3
--	-	-
--	-	-
--	-	-
--	-	-

BC-3741

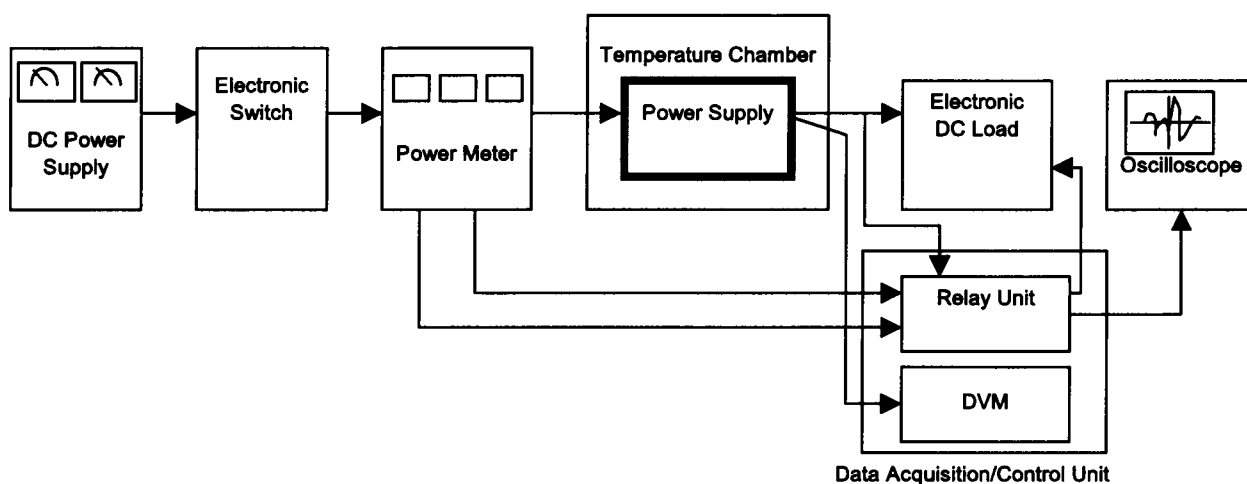


Figure A

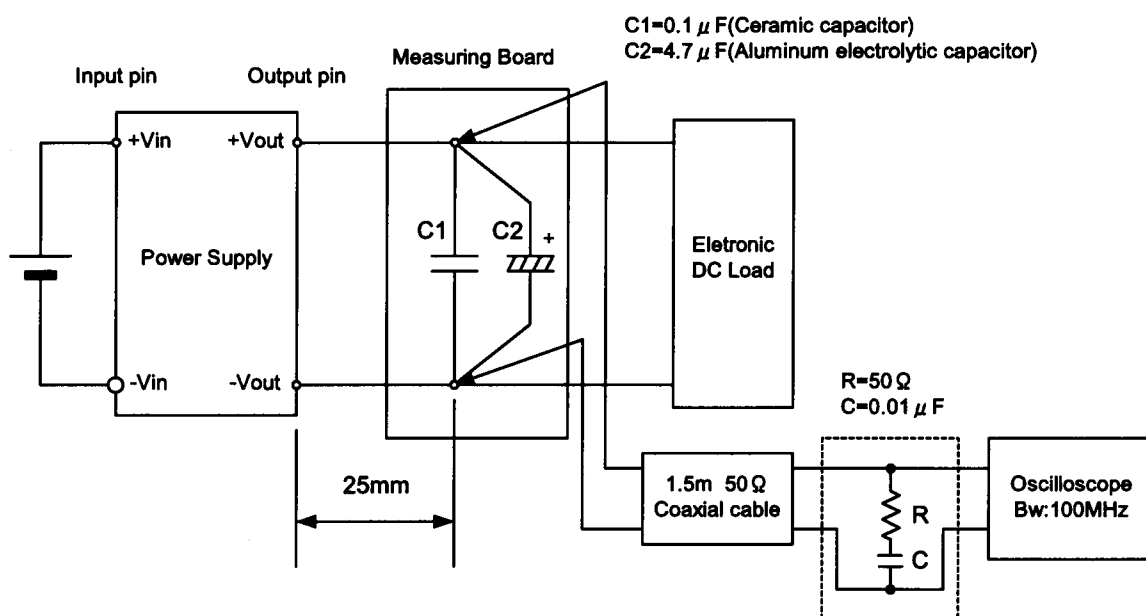


Figure B (Ripple and Ripple noise Characteristic)