

TEST DATA OF SUS6123R3 SUCS6123R3

Regulated DC Power Supply
Feb 18, 2005

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Tetsuo Sugimori Design Manager

Prepared by : Yoshikazu Mizuno
Yoshikazu Mizuno Design Engineer

COSEL CO.,LTD.



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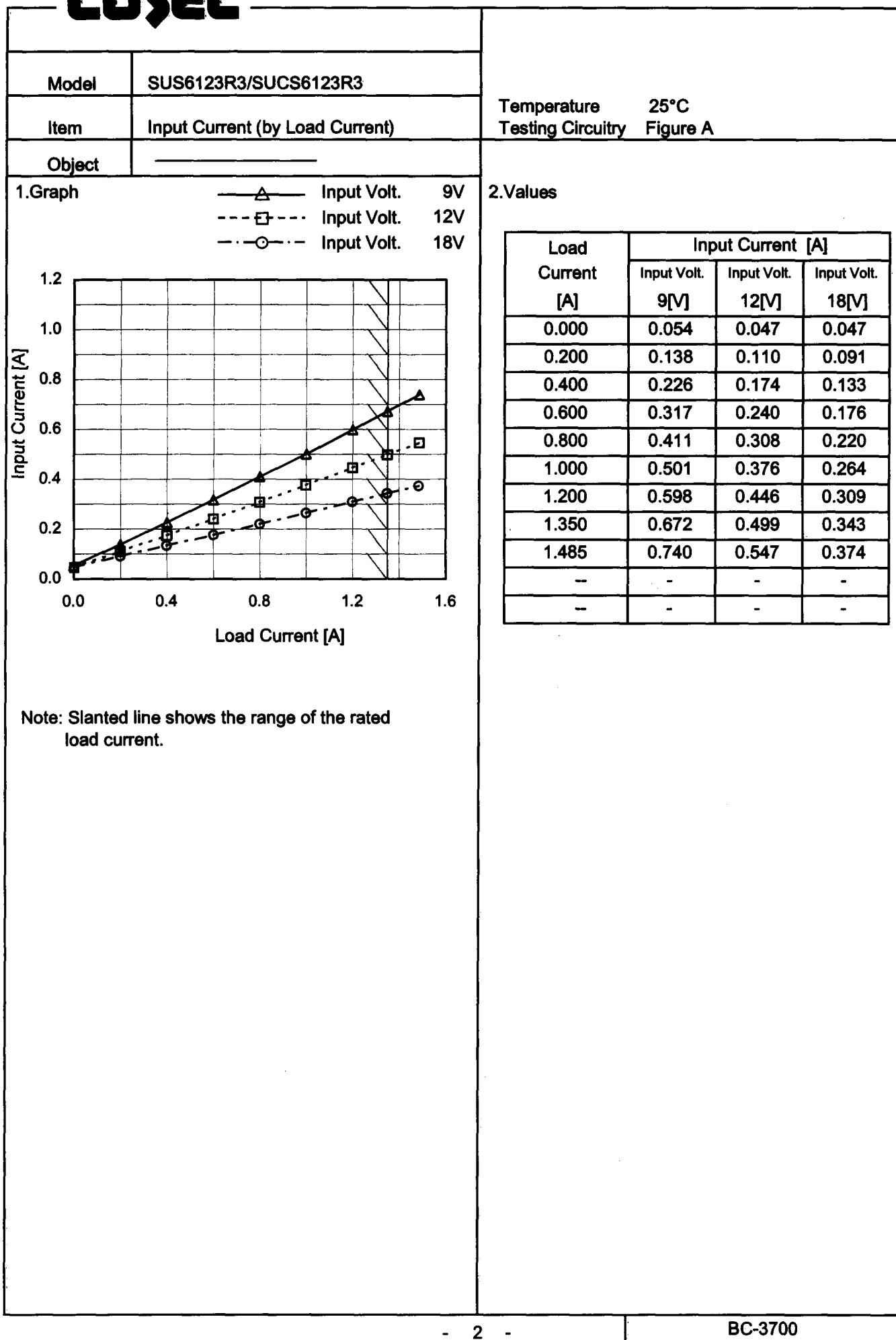
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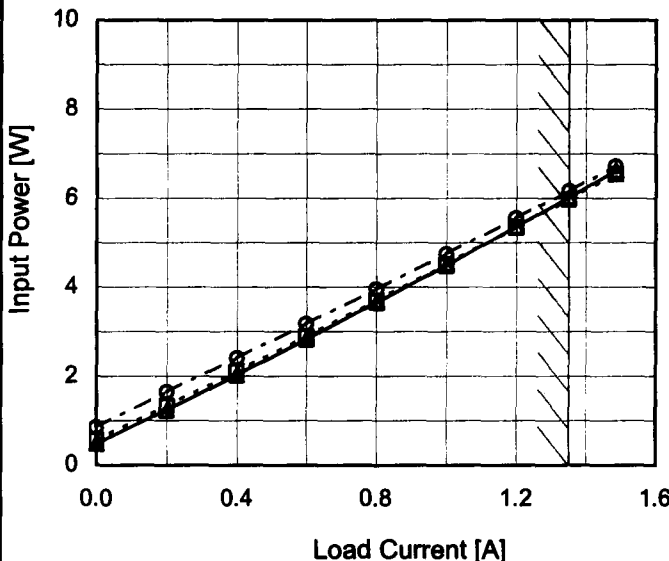
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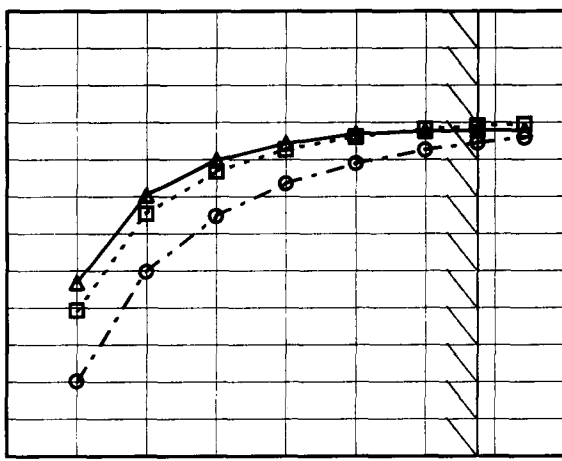
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Model		SUS6123R3/SUCS6123R3	
Item		Line Regulation	
Object		+3.3V1.35A	

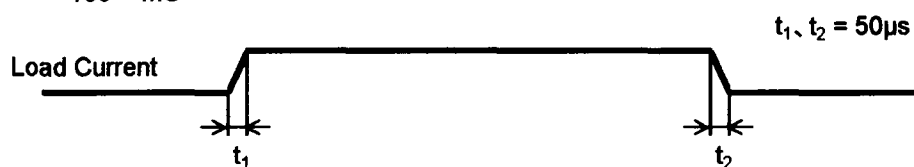
1.Graph

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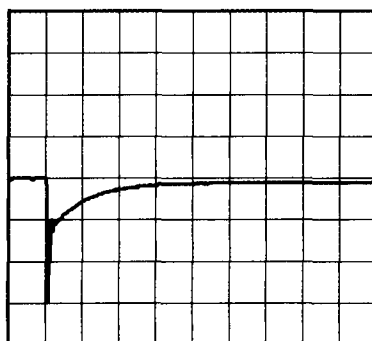
Model	SUS6123R3/SUCS6123R3	Temperature	25°C
Item	Dynamic Load Response	Testing Circuitry	Figure A
Object	+3.3V1.35A		

Input Volt. 12 V
Cycle 100 mS

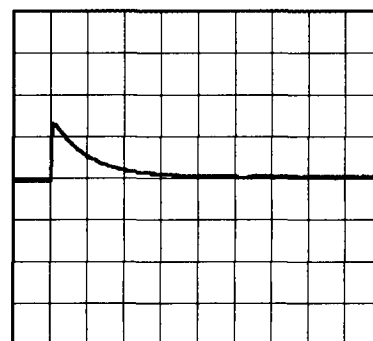


Min. Load (0A) \longleftrightarrow
Load 100% (1.35A)

100mV/div



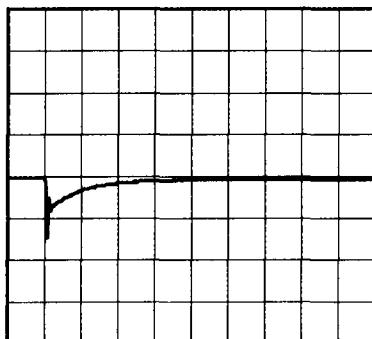
500µs/div



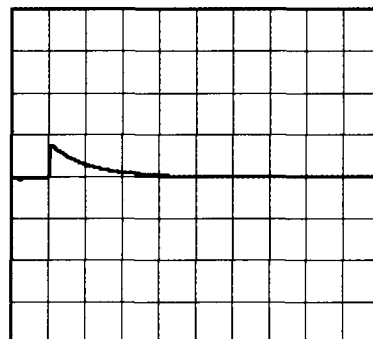
500µs/div

Min. Load (0A) \longleftrightarrow
Load 50% (0.675A)

100mV/div



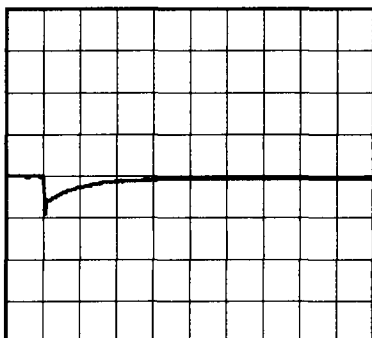
500µs/div



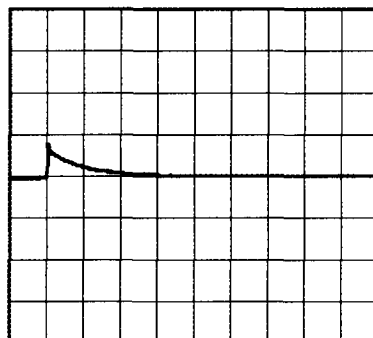
500µs/div

Load 50% (0.675A) \longleftrightarrow
Load 100% (1.35A)

100mV/div

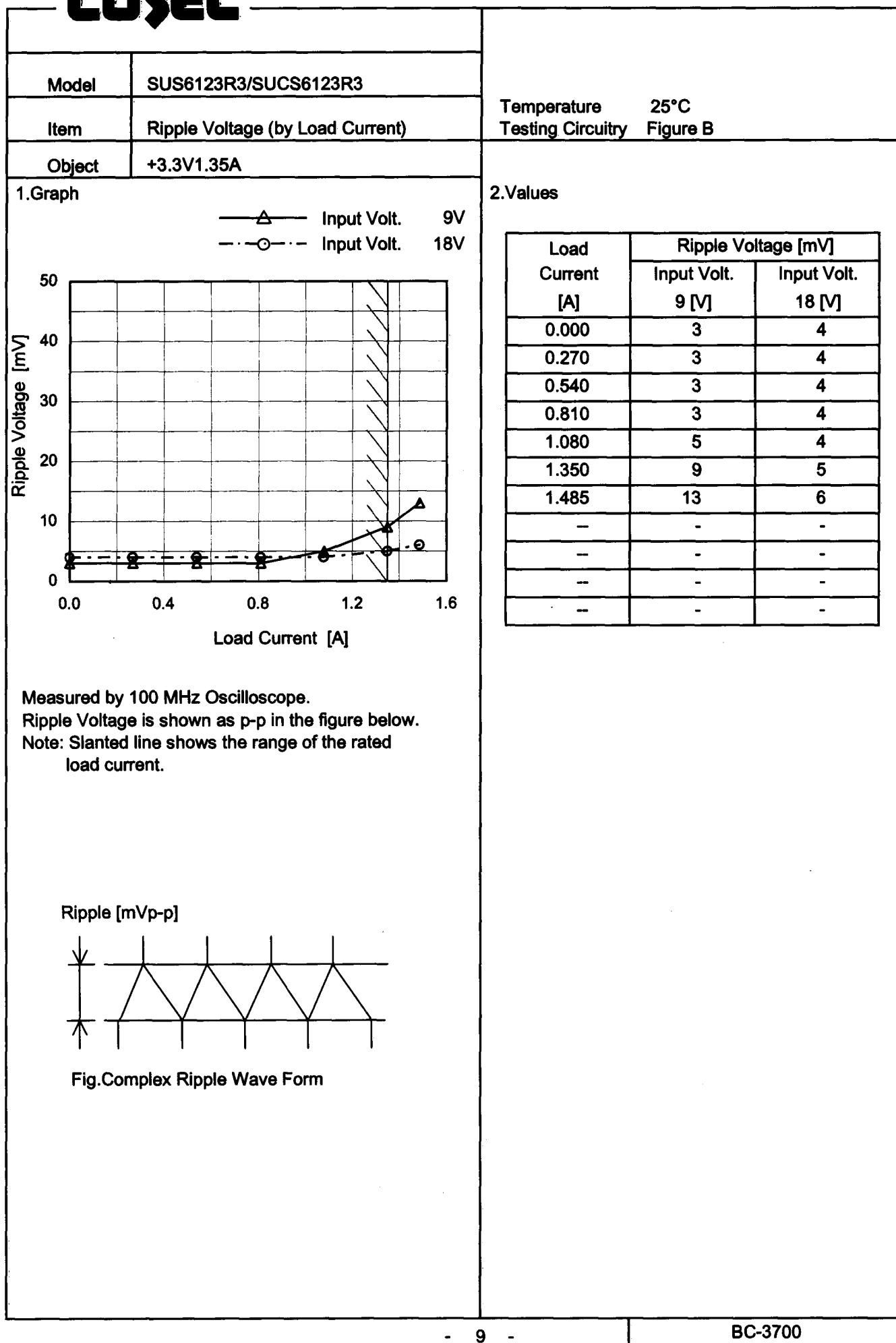


500µs/div



500µs/div

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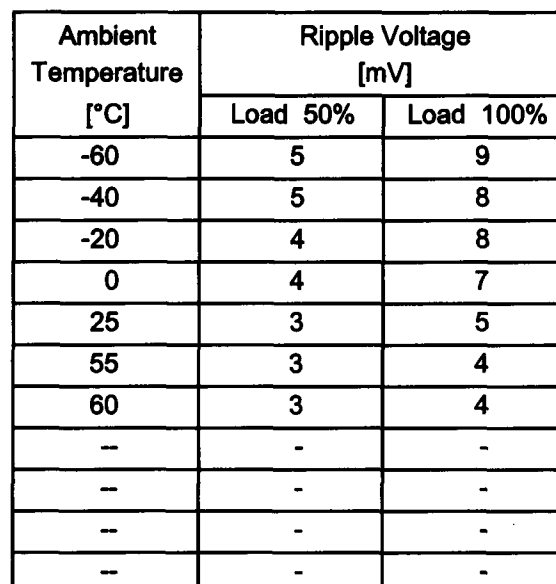


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Model		SUS6123R3/SUCS6123R3																																							
Item		Ripple-Noise																																							
Object		+3.3V1.35A																																							
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<div><div><div>—△— Input Volt. 9V</div><div>- -○- - Input Volt. 18V</div></div><div>Ripple-Noise [mV]</div><div>Load Current [A]</div></div> <div><div>Measured by 100 MHz Oscilloscope.</div><div>Ripple-Noise is shown as p-p in the figure below.</div><div>Note: Slanted line shows the range of the rated load current.</div></div> <div><div><div>Ripple Noise[mVp-p]</div></div><div>Fig.Complex Ripple Noise Wave Form</div></div>		<table><tr><th rowspan="2">Load Current [A]</th><th colspan="2">Ripple-Noise [mV]</th></tr><tr><th>Input Volt. 9 [V]</th><th>Input Volt. 18 [V]</th></tr><tr><td>0.000</td><td>8</td><td>9</td></tr><tr><td>0.270</td><td>15</td><td>14</td></tr><tr><td>0.540</td><td>20</td><td>19</td></tr><tr><td>0.810</td><td>26</td><td>22</td></tr><tr><td>1.080</td><td>33</td><td>27</td></tr><tr><td>1.350</td><td>43</td><td>34</td></tr><tr><td>1.485</td><td>48</td><td>37</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. 9 [V]	Input Volt. 18 [V]	0.000	8	9	0.270	15	14	0.540	20	19	0.810	26	22	1.080	33	27	1.350	43	34	1.485	48	37	--	-	-	--	-	-	--	-	-	--	-	-
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Testing Circuitry Figure B

2.Values



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

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Model		SUS6123R3/SUCS6123R3	
Item		Ambient Temperature Drift	
Object		+3.3V1.35A	
1.Graph		<div><div><div>—△—</div><div>Input Volt.</div><div>9V</div></div><div><div>---□---</div><div>Input Volt.</div><div>12V</div></div><div><div>---○---</div><div>Input Volt.</div><div>18V</div></div></div> <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><div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Model		SUS6123R3/SUCS6123R3	Testing Circuitry Figure A
Item		Output Voltage Accuracy	
Object		+3.3V1.35A	

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 : 9 - 18V

Load Current : 0 - 1.35A

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

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

2. Values

Item	Temperature [°C]	Input Voltage[V]	Output		Output Voltage Accuracy	
			Current[A]	Voltage[V]	Value [mV]	Ration [%]
Maximum Voltage	0	18	0	3.305	±6	±0.2
Minimum Voltage	55	18	1.35	3.293		

COSEL

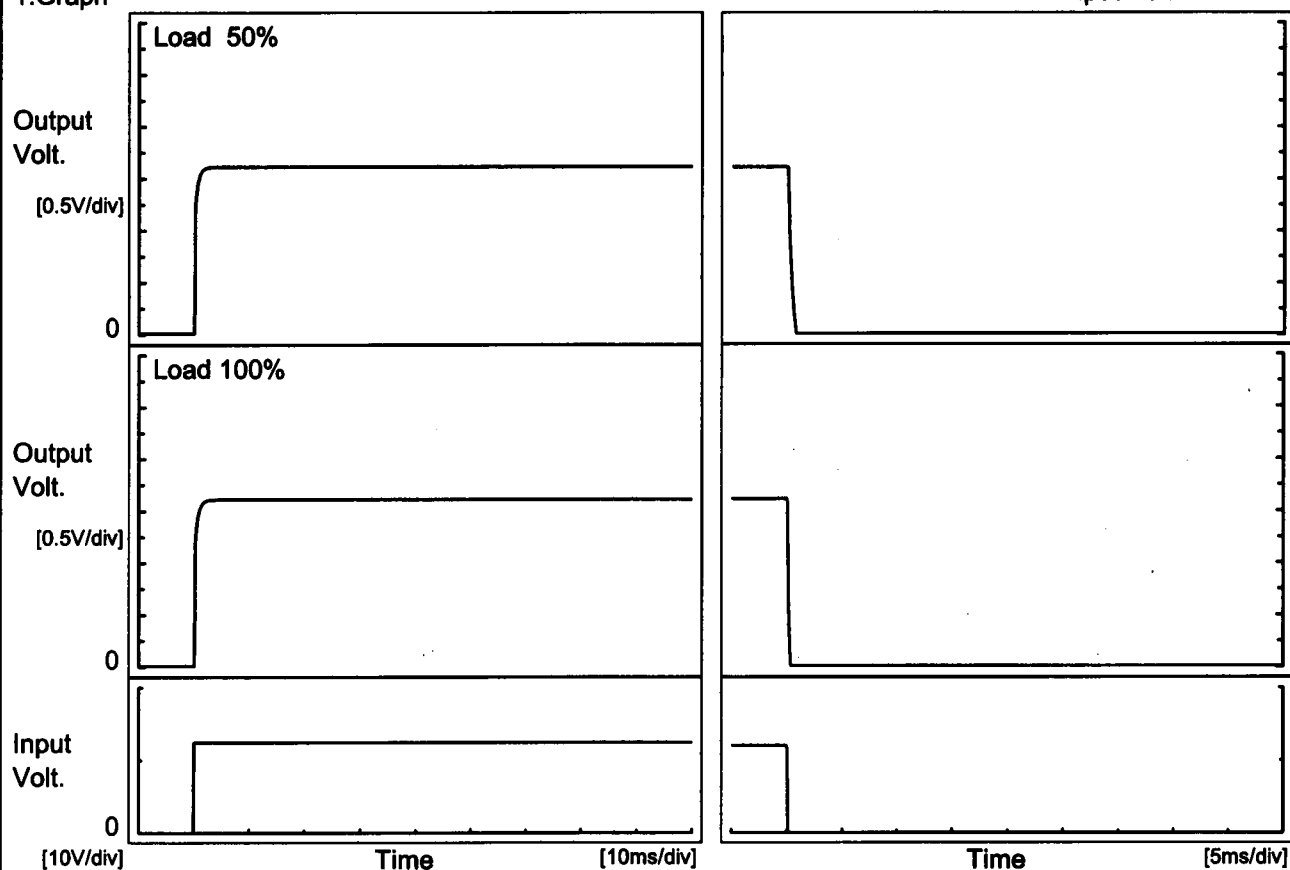
Model	SUS6123R3/SUCS6123R3																								
Item	Time Lapse Drift	Temperature	25°C																						
Object	+3.3V1.35A	Testing Circuitry	Figure A																						
1.Graph		2.Values																							
<div><div><div>3.36</div><div>3.34</div><div>3.32</div><div>3.30</div><div>3.28</div><div>3.26</div><div>3.24</div><div>3.22</div></div><div><div>0</div><div>2</div><div>4</div><div>6</div><div>8</div><div>10</div></div><div><div>Output Voltage [V]</div><div>Time [H]</div></div><div><div>Input Volt.</div><div>12V</div></div><div><div>Load</div><div>100%</div></div></div>		<table><tr><th>Time since start [H]</th><th>Output Voltage [V]</th></tr><tr><td>0.0</td><td>3.298</td></tr><tr><td>0.5</td><td>3.296</td></tr><tr><td>1.0</td><td>3.296</td></tr><tr><td>2.0</td><td>3.296</td></tr><tr><td>3.0</td><td>3.296</td></tr><tr><td>4.0</td><td>3.296</td></tr><tr><td>5.0</td><td>3.296</td></tr><tr><td>6.0</td><td>3.296</td></tr><tr><td>7.0</td><td>3.296</td></tr><tr><td>8.0</td><td>3.296</td></tr></table>		Time since start [H]	Output Voltage [V]	0.0	3.298	0.5	3.296	1.0	3.296	2.0	3.296	3.0	3.296	4.0	3.296	5.0	3.296	6.0	3.296	7.0	3.296	8.0	3.296
Time since start [H]	Output Voltage [V]																								
0.0	3.298																								
0.5	3.296																								
1.0	3.296																								
2.0	3.296																								
3.0	3.296																								
4.0	3.296																								
5.0	3.296																								
6.0	3.296																								
7.0	3.296																								
8.0	3.296																								

COSEL

Model	SUS6123R3/SUCS6123R3	Temperature	25°C
Item	Rise and Fall Time	Testing Circuitry	Figure A
Object	+3.3V1.35A		

1. Graph

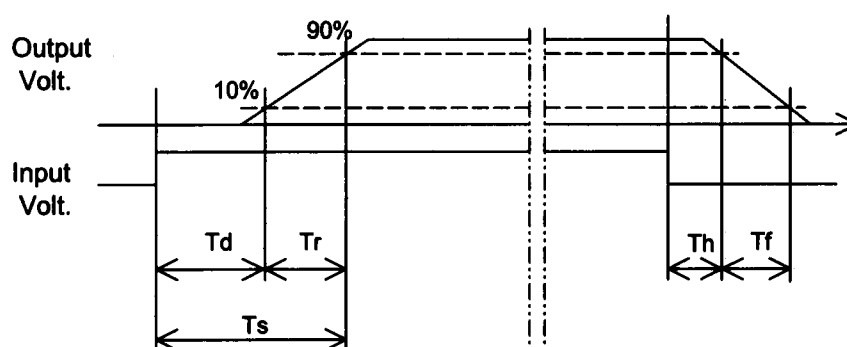
Input Volt. 12 V



2. Values

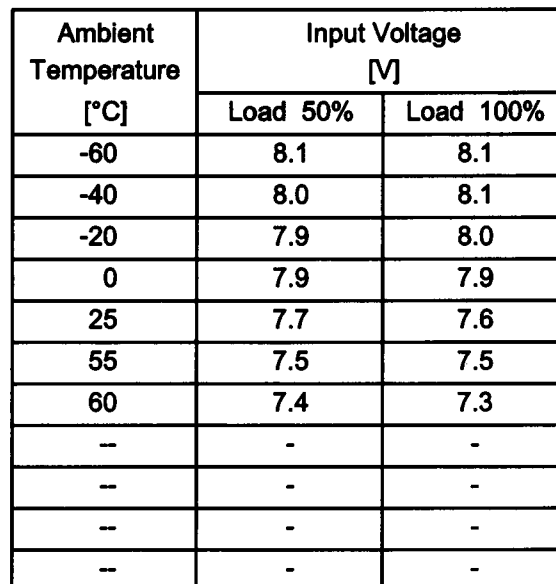
[ms]

Load \ Time	Td	Tr	Ts	Th	Tf
50 %	0.2	0.8	1.0	0.1	0.6
100 %	0.2	0.9	1.1	0.1	0.2



Testing Circuitry Figure A

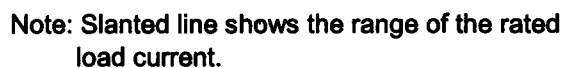
2.Values



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

Temperature 25°C
Testing Circuitry Figure A

_____	Input Volt.	9V
_____	Input Volt.	12V
_____	Input Volt.	18V



Output Voltage [V]	Load Current [A]		
	Input Volt. 9[V]	Input Volt. 12[V]	Input Volt. 18[V]
3.30	1.35	1.35	1.35
3.14	1.89	2.05	2.13
2.97	1.91	2.06	2.14
2.64	1.95	2.08	2.15
2.31	1.98	2.10	2.15
1.98	2.16	2.30	2.35
1.65	2.21	2.33	2.38
1.32	2.24	2.33	2.38
0.99	2.25	2.30	2.34
0.66	2.21	2.23	2.26
0.33	2.12	2.13	2.15
0.00	2.00	1.98	2.14

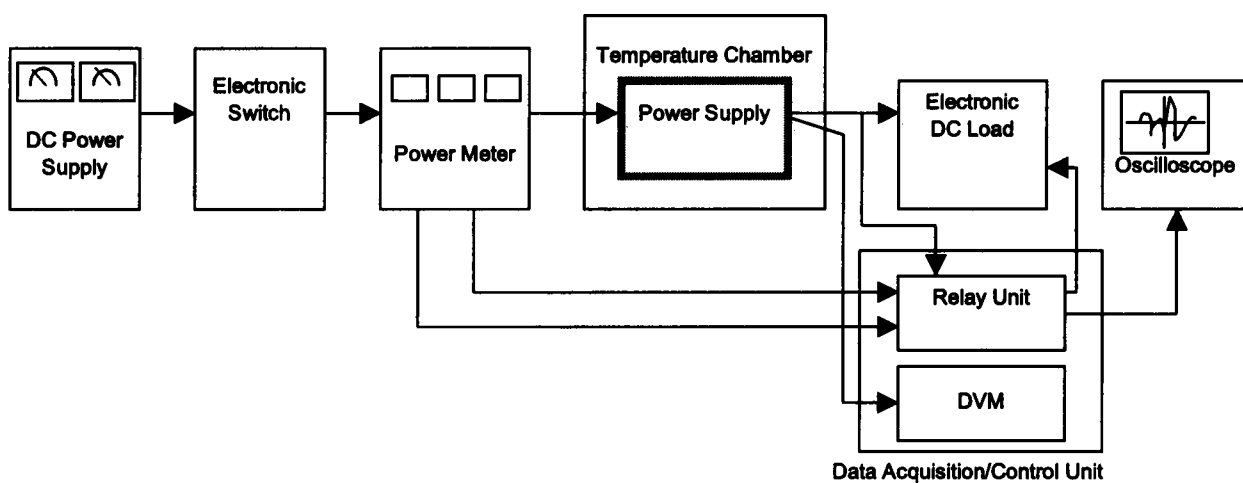


Figure A

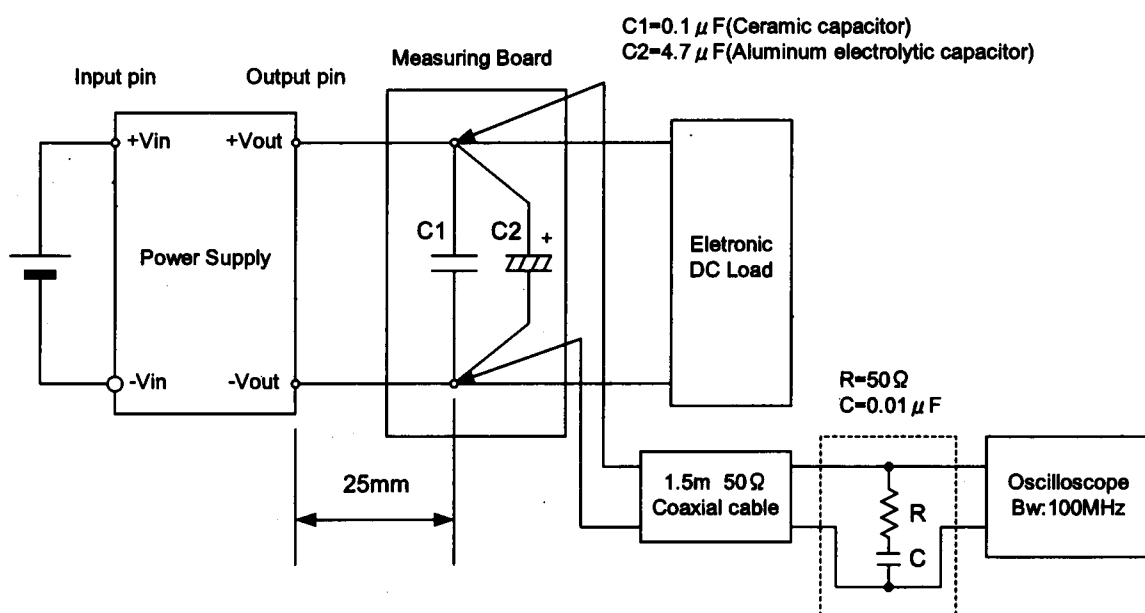


Figure B (Ripple and Ripple noise Characteristic)