



TEST DATA OF ZTS32405

(24.0V INPUT)

Regulated DC Power Supply

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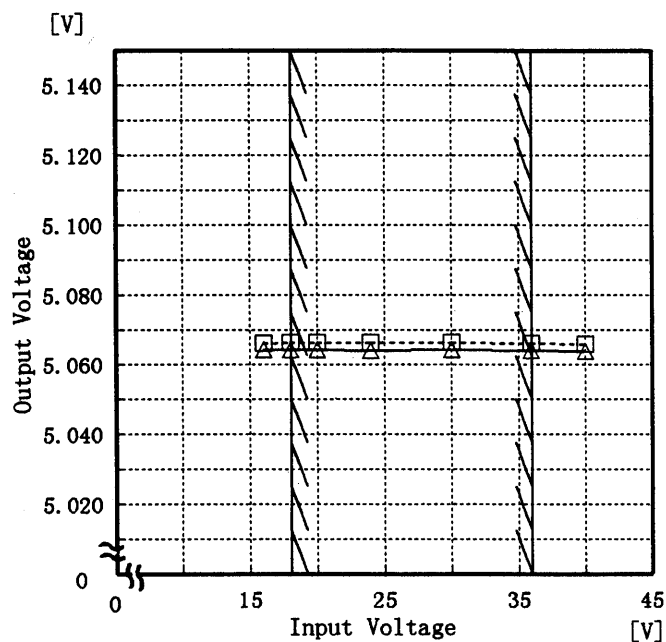
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Model	ZTS32405
Item	Line Regulation 静的入力変動
Object	+5V0.6A

Temperature 25°C
Testing Circuitry Figure A

1. Graph
- Load 50%
 -----△----- Load 100%



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

(注)斜線は定格入力電圧範囲を示す。

2. Values

Input Voltage [V]	Load 50%	Load 100%
	Output Volt. [V]	Output Volt. [V]
16.0	5.066	5.064
18.0	5.066	5.064
20.0	5.066	5.064
24.0	5.066	5.064
30.0	5.066	5.064
36.0	5.066	5.064
40.0	5.066	5.064
—	—	—
—	—	—
—	—	—
—	—	—
—	—	—

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Model ZTS32405		Temperature 25℃ Testing Circuitry Figure A
Item	Efficiency 効率	
Object		

1. Graph

-----□----- Load 50%

-----△----- Load 100%

Efficiency [%]

80

72

64

56

48

0

0

15

25

35

45

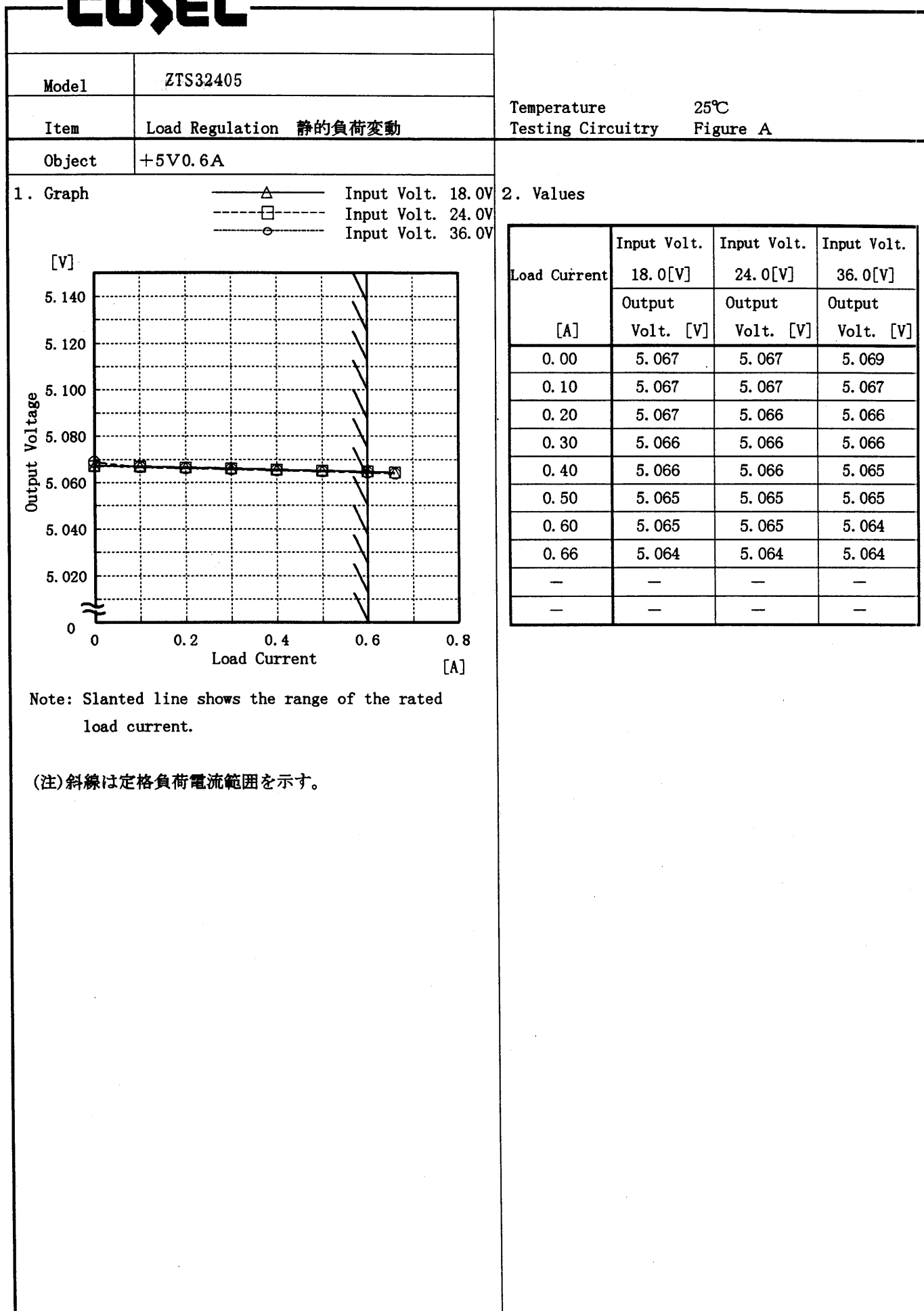
Input Voltage [V]

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

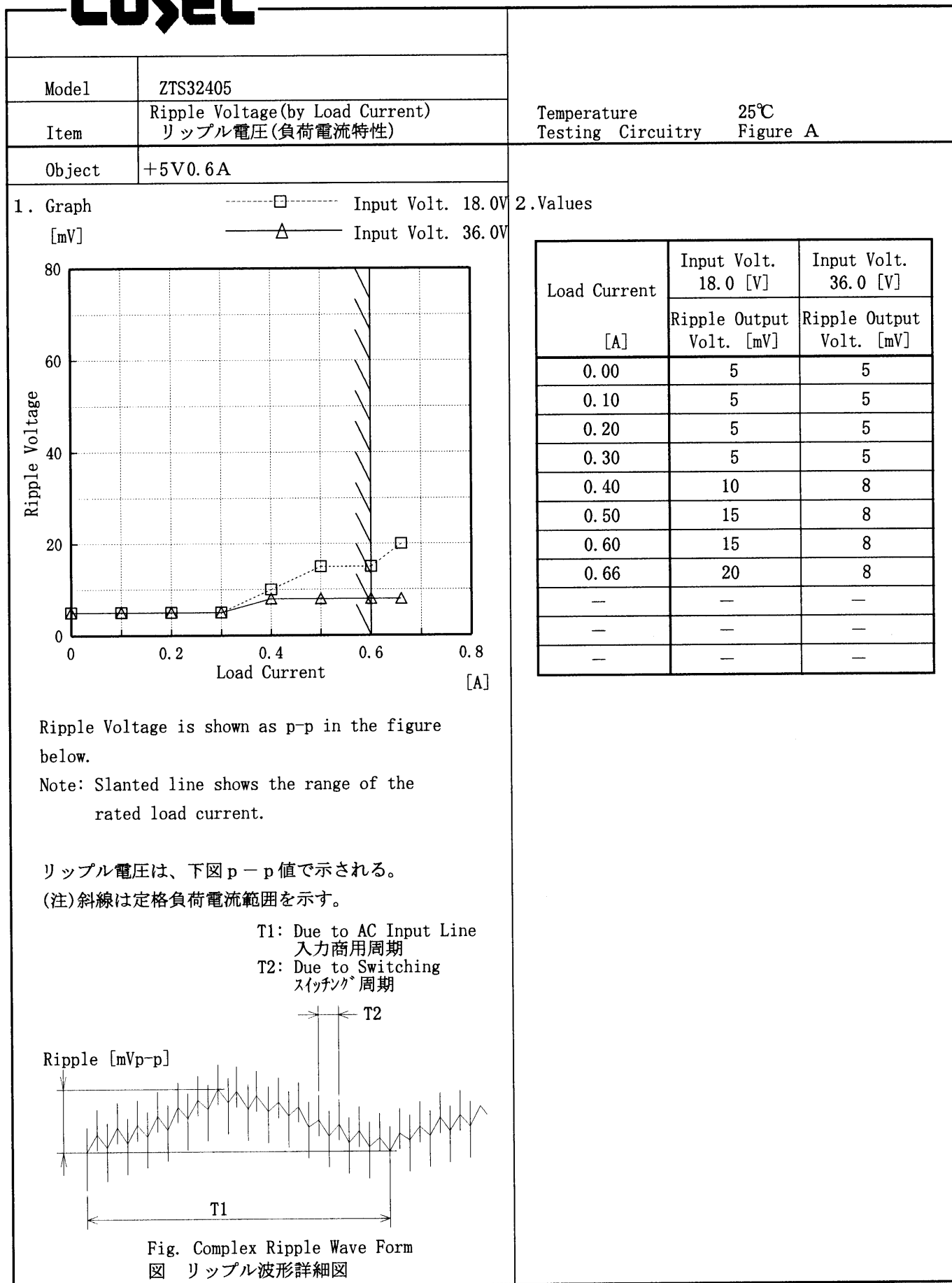
(注)斜線は定格入力電圧範囲を示す。

2. Values

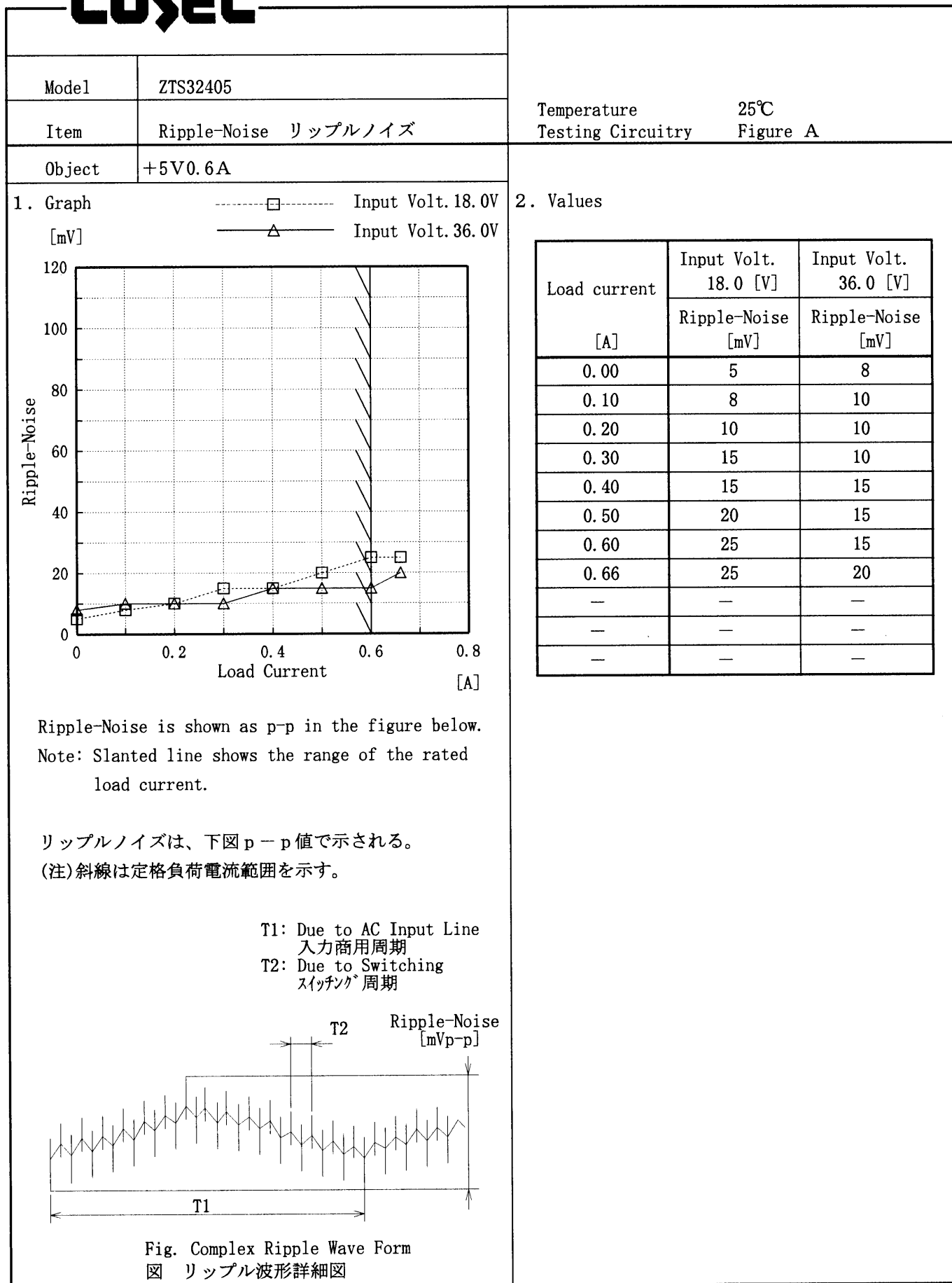
Input Voltage [V]	Load 50% Efficiency [%]	Load 100% Efficiency [%]
16.0	72.0	73.9
18.0	71.2	74.3
20.0	70.5	74.2
24.0	68.6	73.7
30.0	64.9	71.8
36.0	60.6	69.6
40.0	57.5	67.9
—	—	—
—	—	—
—	—	—
—	—	—
—	—	—

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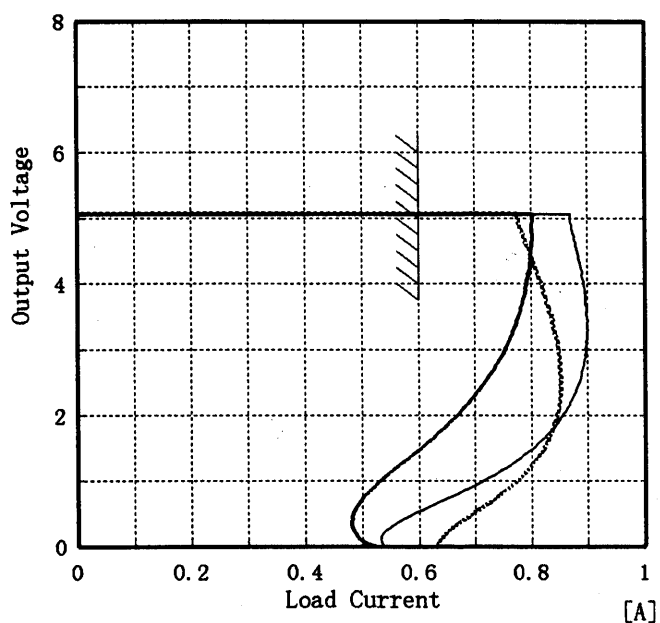
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Model	ZTS32405
Item	Overcurrent Protection 過電流保護
Object	+5V0.6A

Temperature 25°C
Testing Circuitry Figure A

1. Graph

[V]



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

(注) 斜線は定格負荷電流範囲を示す。

2. Values

Output Voltage [V]	Input Volt. 18.0[V]	Input Volt. 24.0[V]	Input Volt. 36.0[V]
	Load Current [A]	Load Current [A]	Load Current [A]
5.00	0.77	0.87	0.80
4.75	0.78	0.87	0.80
4.50	0.79	0.88	0.80
4.00	0.82	0.89	0.79
3.50	0.83	0.90	0.77
3.00	0.85	0.90	0.75
2.50	0.85	0.88	0.72
2.00	0.85	0.86	0.67
1.50	0.82	0.80	0.60
1.00	0.78	0.72	0.53
0.50	0.70	0.60	0.48
0.00	0.63	0.56	0.56

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Model	ZTS32405	Temperature 25°C Testing Circuitry Figure A
Item	Dynamic Load Responce 動的負荷変動	
Object	+5V0.6A	

Input Volt. 24.0 V

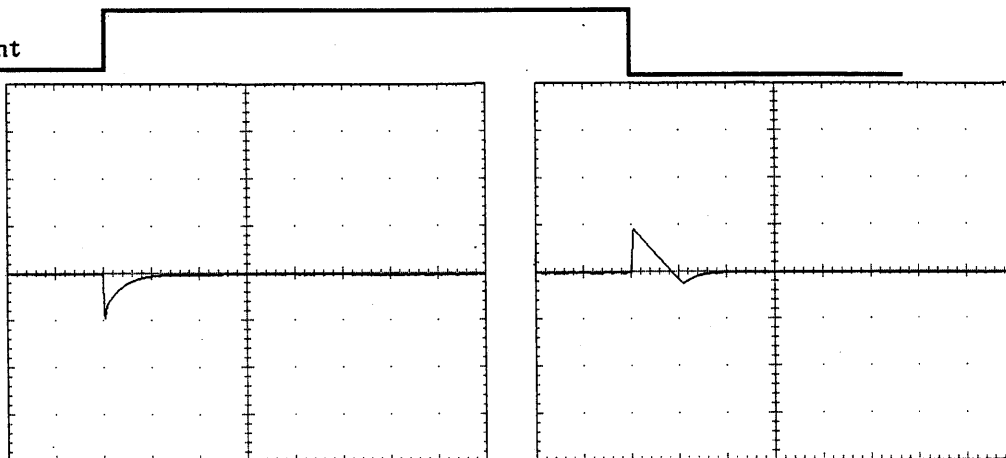
Cycle 100 mS

Load Current

Min. Load ←→

Load 100 %

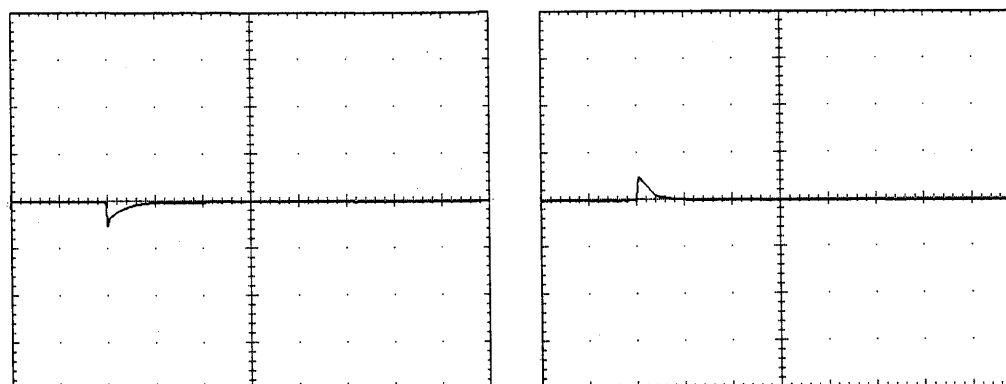
200 mV/div



Min. Load ←→

Load 50 %

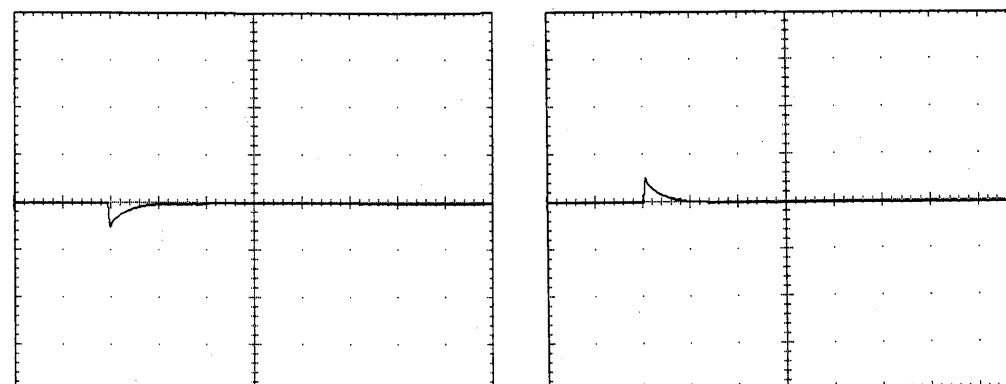
200 mV/div



Load 50%←→

Load 100 %

200 mV/div



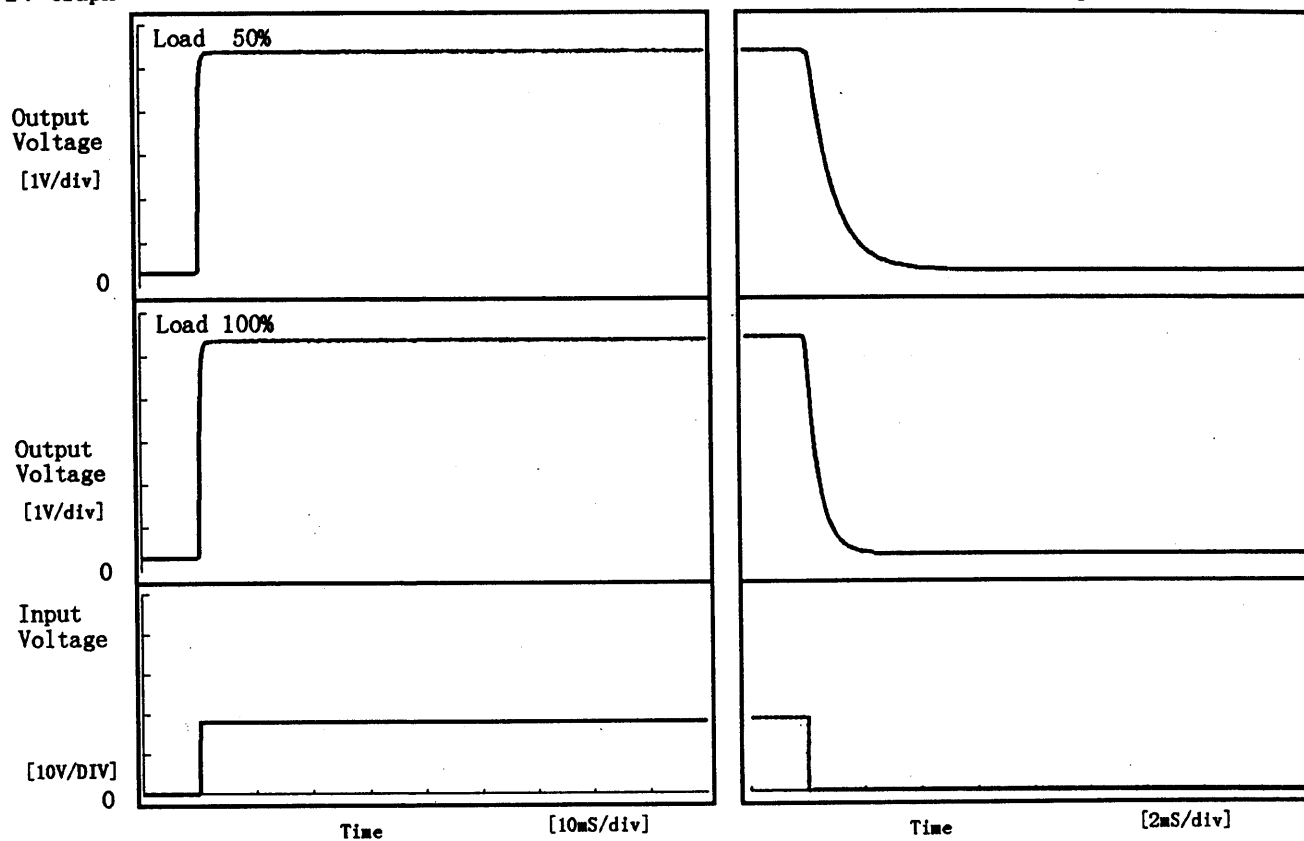
1 mS/div

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Model	ZTS32405	Temperature	25°C
Item	Rise and Fall Time 立上り、立下り時間	Testing Circuitry	Figure A
Object	+5V0.6A		

1. Graph

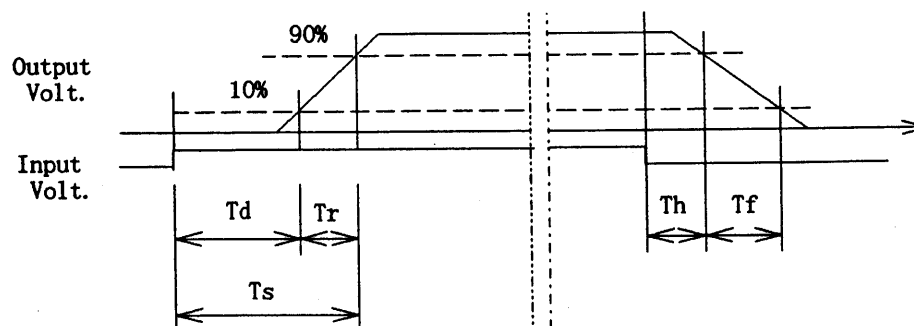
Input Volt. 18.0 V

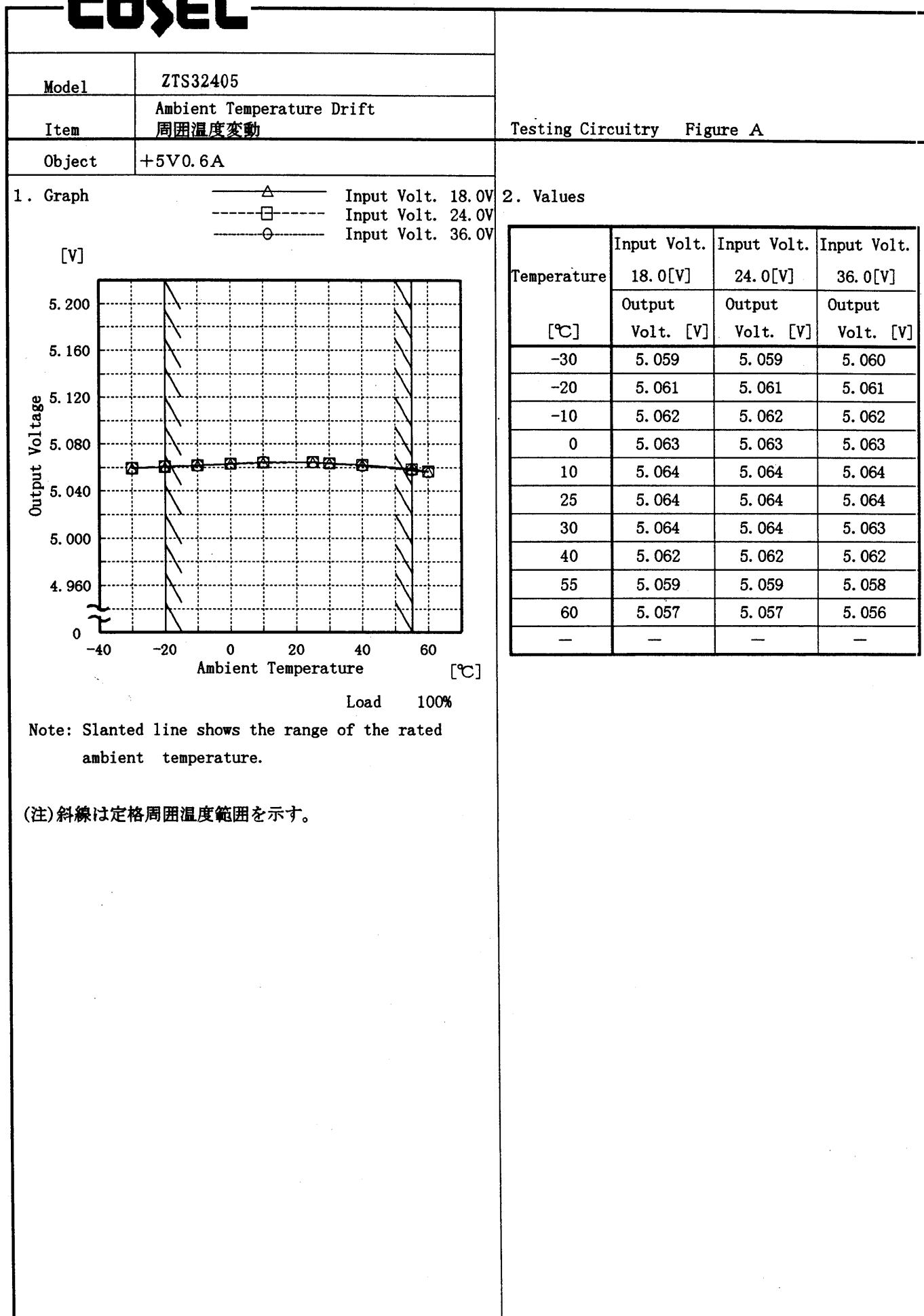


2. Values

[mS]

Load \ Time	T d	T r	T s	T h	T f
50 %	0.10	0.50	0.60	0.37	1.94
100 %	0.05	0.60	0.65	0.17	1.01

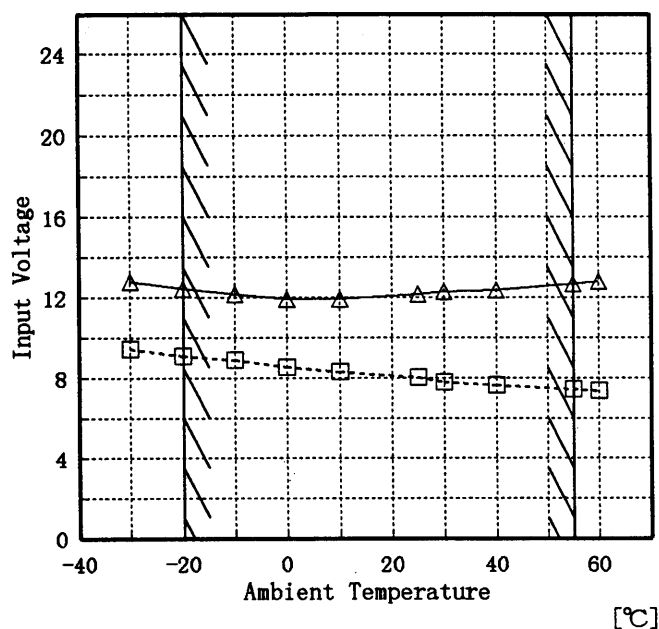


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Model	ZTS32405
Item	Minimum Input Voltage for Regulated Output Voltage 最低レギュレーション電圧
Object	+5V0.6A

1. Graph
- [V]
- Load 50%
- △----- Load 100%



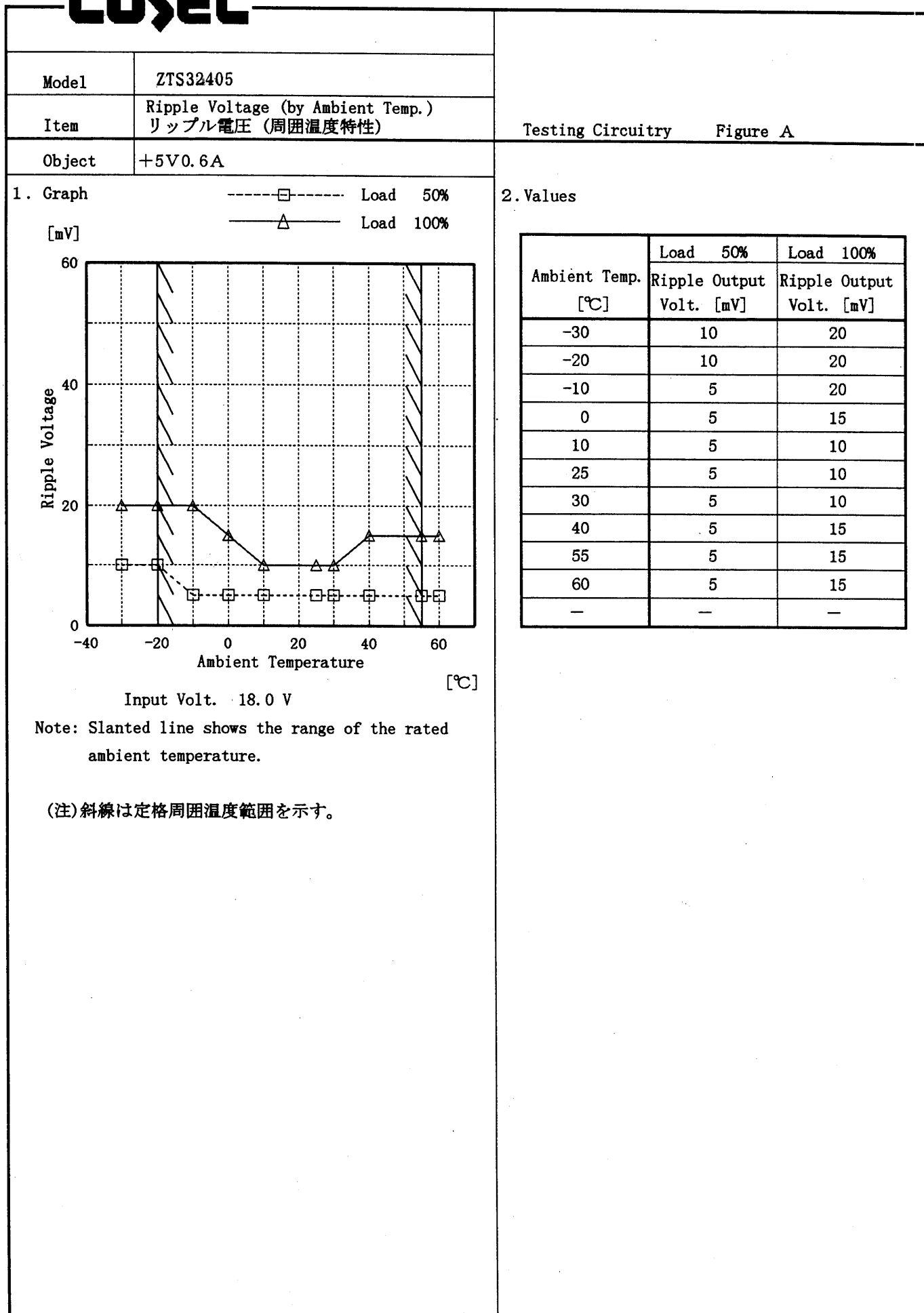
Note: Slanted line shows the range of the rated ambient temperature.

(注)斜線は定格周囲温度範囲を示す。

Testing Circuitry Figure A

2. Values

Ambient Temp. [°C]	Load 50% Input Volt. [V]	Load 100% Input Volt. [V]
-30	9.5	12.8
-20	9.1	12.4
-10	8.9	12.2
0	8.5	11.9
10	8.3	11.9
25	8.0	12.2
30	7.8	12.3
40	7.7	12.4
55	7.4	12.7
60	7.4	12.8
—	—	—

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Model	ZTS32405	Temperature	25 ℃																						
Item	Time Lapse Drift 経時ドリフト	Testing Circuitry	Figure A																						
Object	+5V0.6A																								
1. Graph		2.Values																							
<div>[V]</div> <div><p>Output Voltage [V]</p><p>Time [H]</p><p>Input Volt. 24V</p><p>Load 100%</p></div>		<table><tr><th>Time since start [H]</th><th>Output Voltage [V]</th></tr><tr><td>0.0</td><td>5.063</td></tr><tr><td>0.5</td><td>5.061</td></tr><tr><td>1.0</td><td>5.061</td></tr><tr><td>2.0</td><td>5.061</td></tr><tr><td>3.0</td><td>5.061</td></tr><tr><td>4.0</td><td>5.062</td></tr><tr><td>5.0</td><td>5.062</td></tr><tr><td>6.0</td><td>5.062</td></tr><tr><td>7.0</td><td>5.062</td></tr><tr><td>8.0</td><td>5.062</td></tr></table>		Time since start [H]	Output Voltage [V]	0.0	5.063	0.5	5.061	1.0	5.061	2.0	5.061	3.0	5.061	4.0	5.062	5.0	5.062	6.0	5.062	7.0	5.062	8.0	5.062
Time since start [H]	Output Voltage [V]																								
0.0	5.063																								
0.5	5.061																								
1.0	5.061																								
2.0	5.061																								
3.0	5.061																								
4.0	5.062																								
5.0	5.062																								
6.0	5.062																								
7.0	5.062																								
8.0	5.062																								

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Model		ZTS32405	Testing Circuitry Figure A
Item		Output Voltage Accuracy 定電圧精度	
Object		+5V0.6A	

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 : -20~55 °C

Input Voltage : 18.0~36.0 V

Load Current : 0.0~0.6 A

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

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

定電圧精度

周囲温度、入力電圧、負荷を下記仕様内で、任意に変動させたときの出力電圧の変動をいう。

周囲温度 -20~55 °C

入力電圧 18.0~36.0 V

負荷電流 0.0~0.6 A

* 定電圧精度(変動値) = $\pm (\text{出力電圧の最高値} - \text{出力電圧の最低値}) / 2$

* 定電圧精度(変動率) = $\frac{\text{変動値}}{\text{定格出力電圧}} \times 100$

Item	Temperature [°C]	Input Voltage [V]	Output Current [A]	Output Voltage [V]	Output Voltage Accuracy [mV]	Output Voltage Accuracy(Ration) [%]
Maximum Voltage	25	36.0	0.0	5.070	±6	±0.2
Minimum Voltage	55	36.0	0.6	5.058		

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