TO-252 Voltage Regulator in a TO-252 Plastic Package.

3-Terminal regulators ,output current up to 1.5A, internal thermal overload protection and short-circuit limiting, HF Product.

Voltage Regulator.

Parameter	Symbol	Rating	Unit
Input voltage	V_I	35	V
Thernal Resistance Junction-ambient	$R_{\theta JA}$	65	/W
Thernal Resistance Junction-case	$R_{\theta JC}$	5.0	/W
Operating Temperature Range	T_{OPR}	-40 125	
Storage temperature range	T_{stg}	-65 150	

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Output voltage	V_O	T_j=25	5.75	6.0	6.25	V
		V_i=9V-21V, Io=5mA-1A Po≤15W	5.7	6.0	6.3	V
Load Regulation	Vo	T_j=25 Io=5mA-1.5A			120	mV
		T_j=25				

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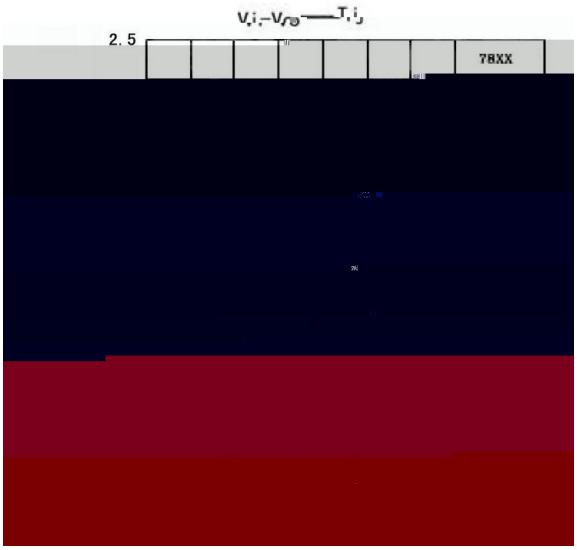
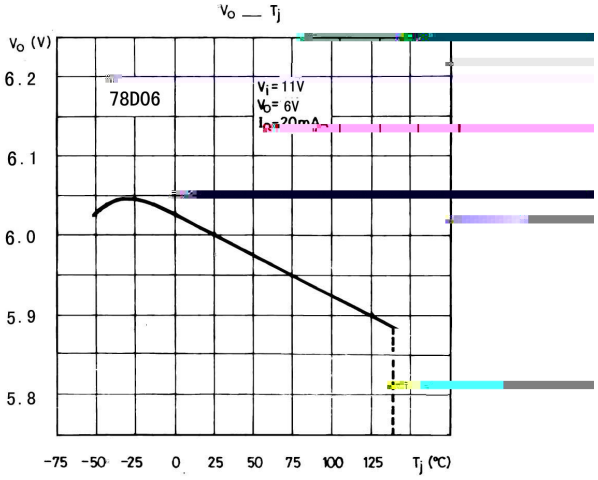
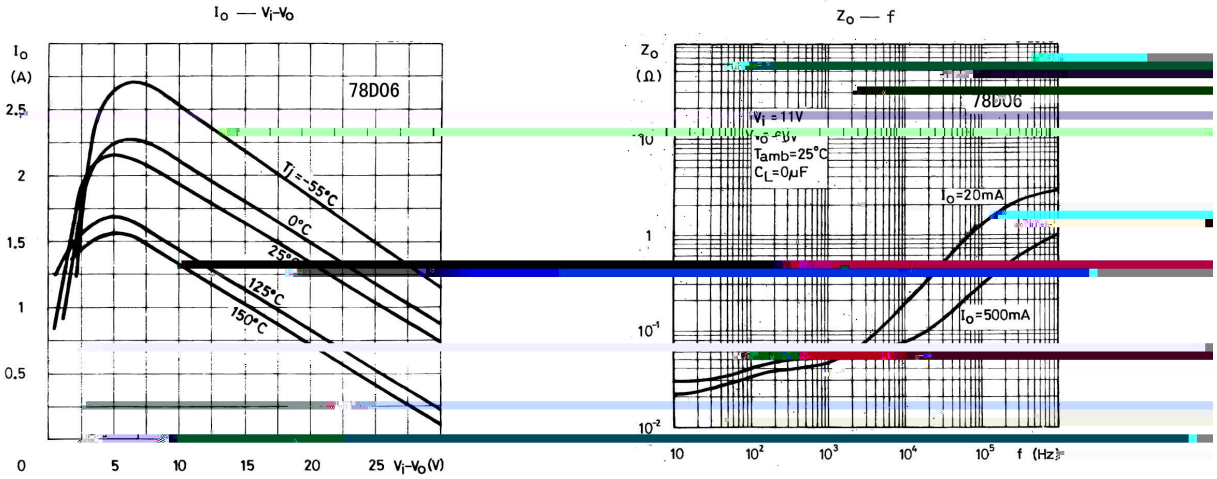
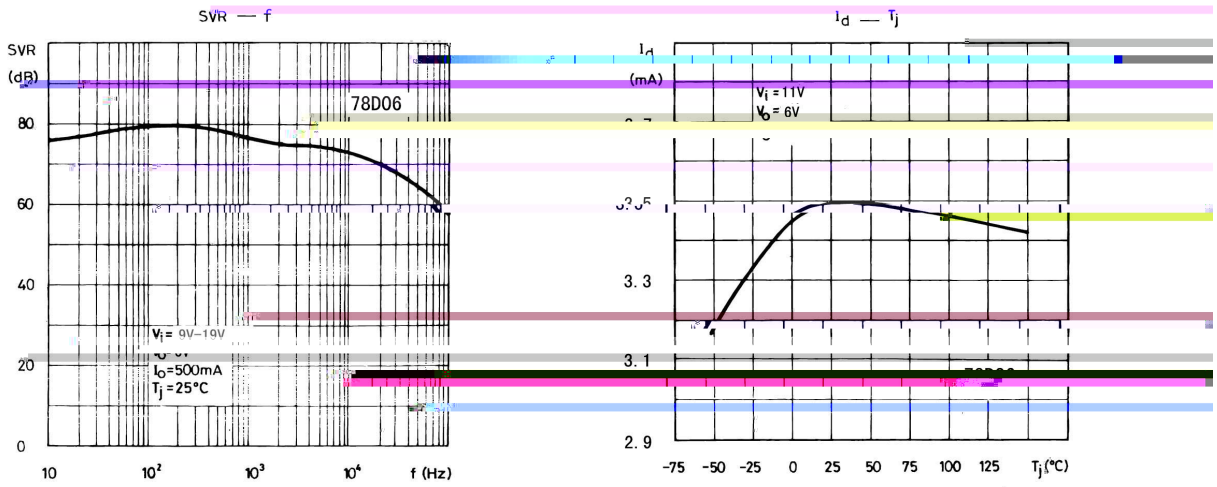

2.5
78XX


Vo — Tj
Vo (V)
6.2
6.1
6.0
5.9
5.8
78D06
Vi = 11V
Vo = 6V
-75 -50 -25 0 25 50 75 100 125 Tj (°C)


Io — Vi-Vo
Io (A)
2.5
2
1.5
1
0.5
0
78D06
Tj=-55°C
0°C
25°C
125°C
150°C
0 5 10 15 20 25 Vi-Vo(V)
Zo — f
Zo (Ω)
78D06
Vi = 11V
Tamb=25°C
CL=0μF
Io=20mA
Io=500mA
10
1
10-1
10-2
10 10² 10³ 10⁴ 10⁵ f (Hz)


SVR — f
SVR (dB)
80
60
40
20
0
78D06
Vi = 9V-19V
Io=500mA
Tj=25°C
10 10² 10³ 10⁴ f (Hz)
Id — Tj
Id (mA)
Vi = 11V
Vo = 6V
3.3
3.1
2.9
-75 -50 -25 0 25 50 75 100 125 Tj(°C)

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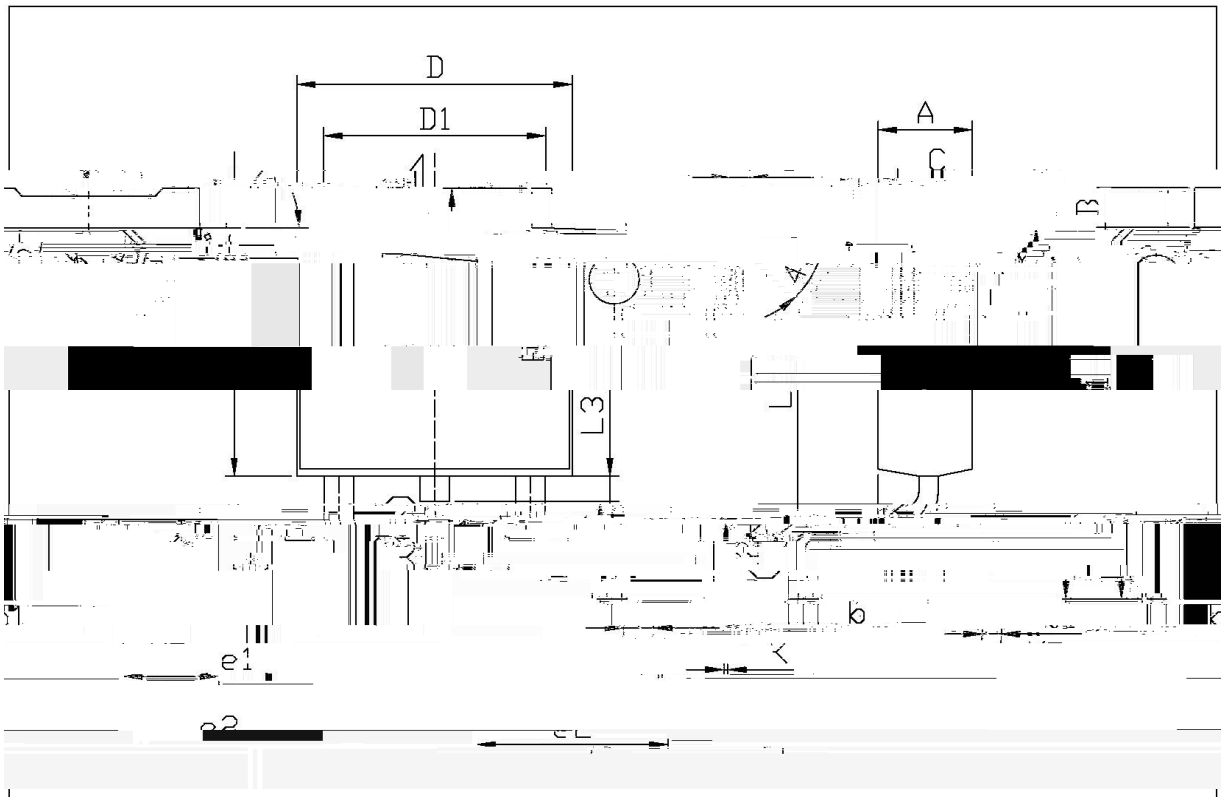

单位：mm

Dimensions In Millimeters			Dimensions In Millimeters		
Symbol	Min	Max	Symbol	Min	Max
e1	2.24	2.34	B	0.95	1.25
e2	4.48	4.72	h	0.70	0.90
L	9.85	10.35	h1	0.15	0.55
L2	0.90	1.50	h2	1.70	2.10
D	6.45	6.75	L3	0.60	0.90
b	0.00	0.10	D1	5.10	5.50
K					

TO-252

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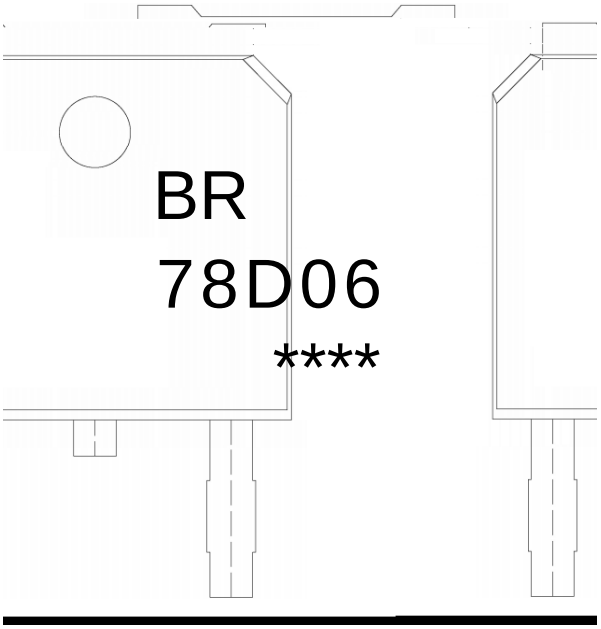

Note:

BR:	Company Code
78D06:	Product Type
****:	Lot No. Code, code change with Lot No

Wh p shudwxuh Suriloh iru LU Uhiorz Vroghulqj+Seoluhh,

Note:

1 150 180 60 90sec;
1.Preheating:150~180 , Time:60~90sec.

2 245 5 5 0.5sec;
2.Peak Temp.:245 5 , Duration:5 0.5sec.

3 2 10 /sec.
3. Cooling Speed: 2~10 /sec.

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260 5 10 1 sec. Temp.:260±5 Time:10±1 sec

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/ REEL

Package Type	Units					Dimension		(unit mm³)
	Units/Reel /	Reels/Inner Box /	Units/Inner Box /	Inner Boxes/Outer Box /	Units/Outer Box /	Reel	Inner Box	Outer Box
TO-252	2,500	2	5,000	6	30,000	13 ×16	360×360×50	380×335×366

/ TUBE

Package Type	Units					Dimension		(unit mm³)
	Units/Tube /	Tubes/Inner Box /	Units/Inner Box /	Inner Boxes/Outer Box /	Units/Outer Box /	Tube	Inner Box	Outer Box