

78D06
Rev.G Jun.-2024

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

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

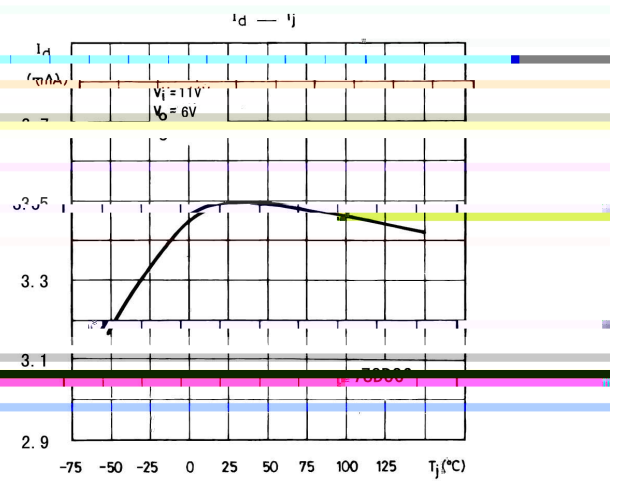
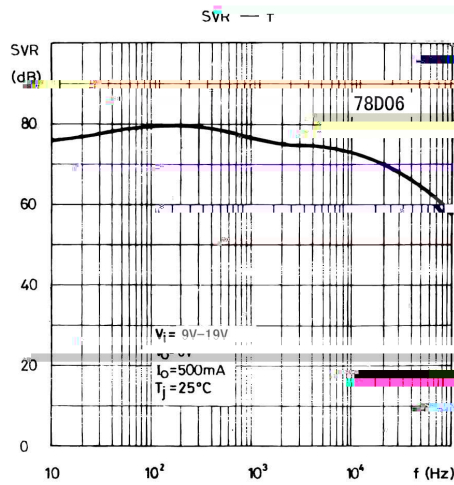
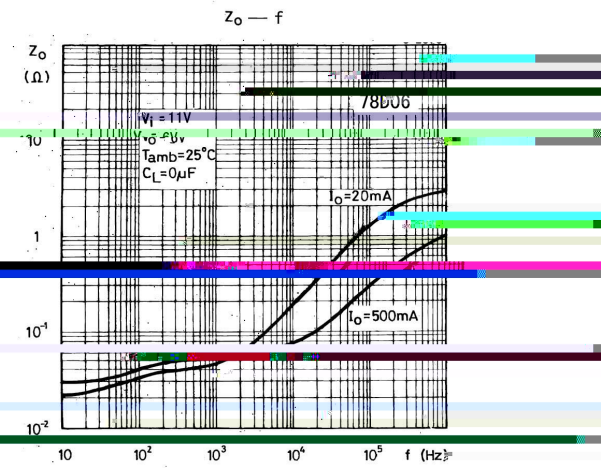
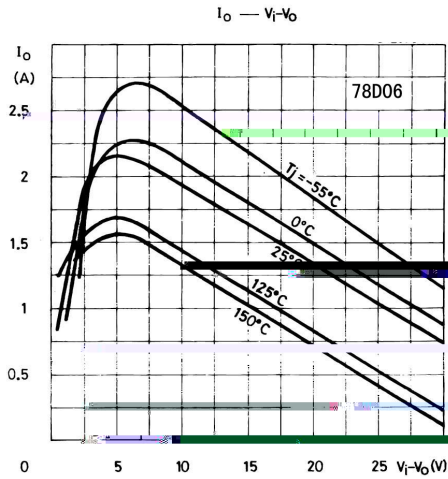
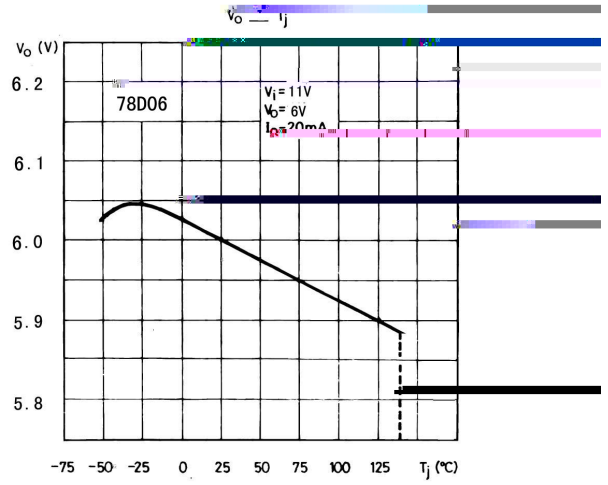
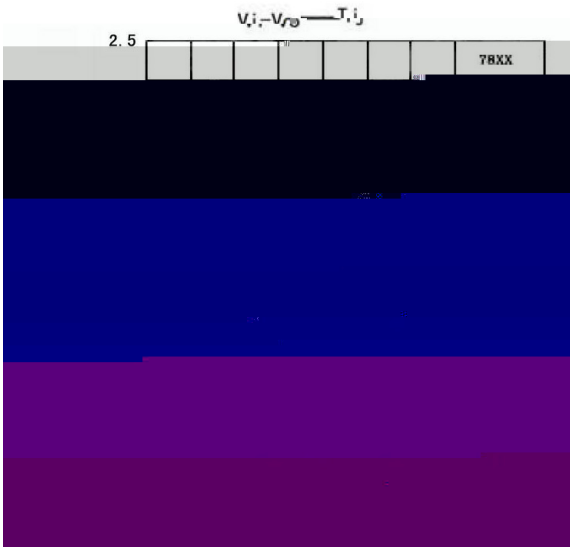
Voltage Regulator.

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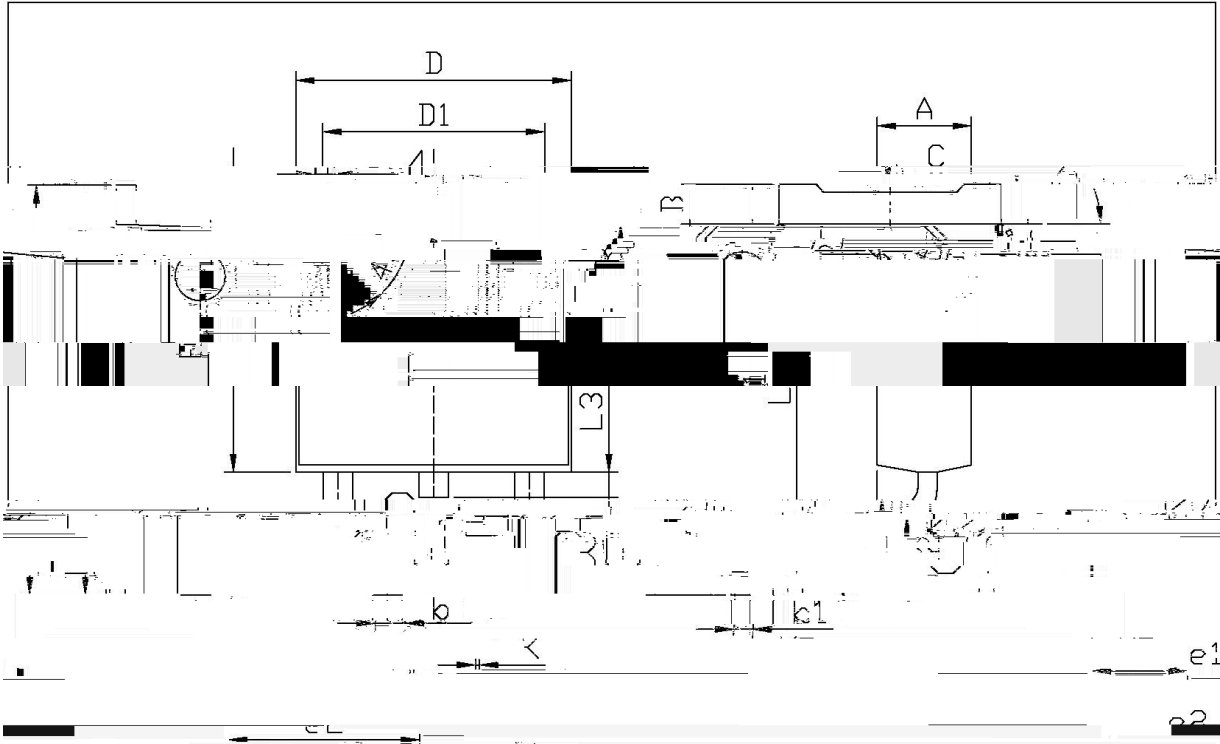
Parameter	Symbol	Rating	Unit
Input voltage	V_i	35	V
Thermal Resistance Junction-ambient	R_{JA}	65	/W
Thermal Resistance Junction-case	R_{JC}	5.0	/W
Operating Temperature Range	T_{OPR}	-40 125	
Storage temperature range	T_{stg}	-65 150	

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Output voltage	V_o	$T_j=25$	5.75	6.0	6.25	V
		$V_i=9V-21V,$ $I_o=5mA-1A$ P_o 15W	5.7	6.0	6.3	V
Load Regulation	V_o	$T_j=25$ $I_o=5mA-1.5A$ $T_j=25$			120	mV

/ Electrical Characteristic Curve



/ Package Dimensions

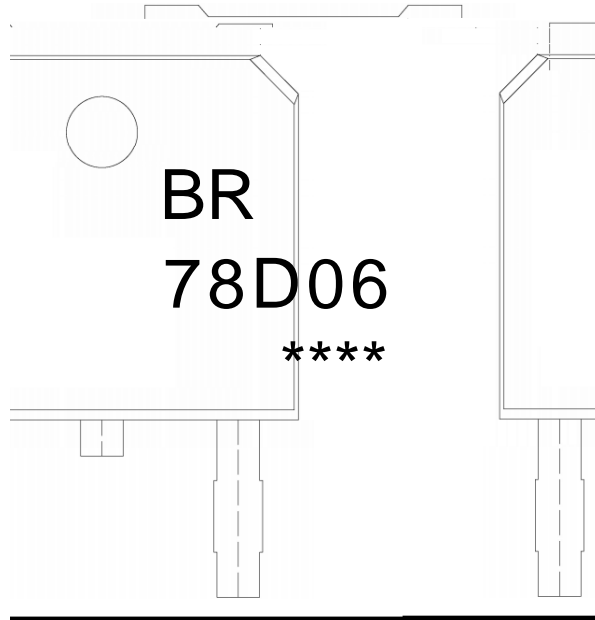


单位: mm

Dimensions	Symbol	Max	Min	Dimensions	Symbol	Max	Min
2.32	B	0.95	1.25	2.24	e1	0.75	0.75
0.95	L3	0.35	0.15	0.55	L3	0.35	0.15
0.45	b	0.55	0.75	1.50	e2	0.60	0.60
0.10	b1	0.10	0.10	5.50	CL	0.70	0.70

T_Q = 25.2

/ Marking Instructions



BR

78D06

Note:

BR: Company Code

78D06: Product Type

****: Lot No. Code, code change with Lot No

() / Resistance to Soldering Heat Test Conditions

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. |

/ Resistance to Soldering Heat Test Conditions

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

/ Packaging SPEC.

/ REEL

Package Type	Units					Dimension (unit mm ³)		
	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 mm ³)		
	Units/Tube	Tubes/Inner Box	Units/Inner Box	Inner Boxes/Outer Box	Units/Outer Box	Tube	Inner Box	Outer Box