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

1.5A,

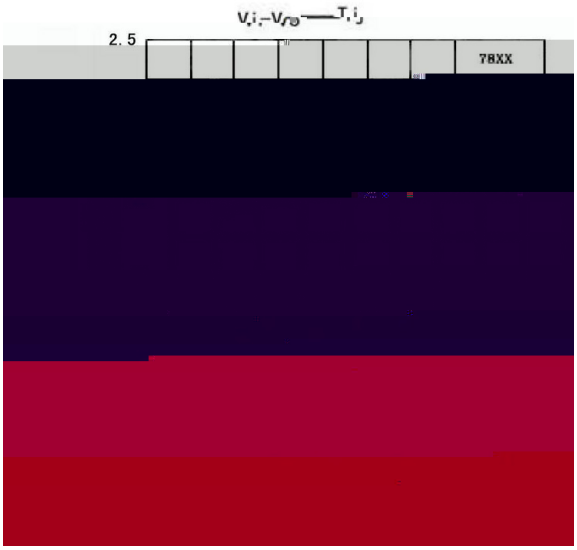
3-Terminal regulators ,output current up to 1.5A, internal thermal overload protection and short-circuit limiting, HF Product.

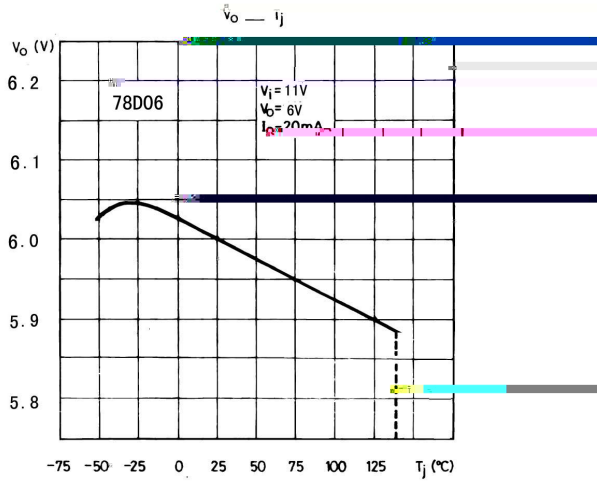
Voltage Regulator.

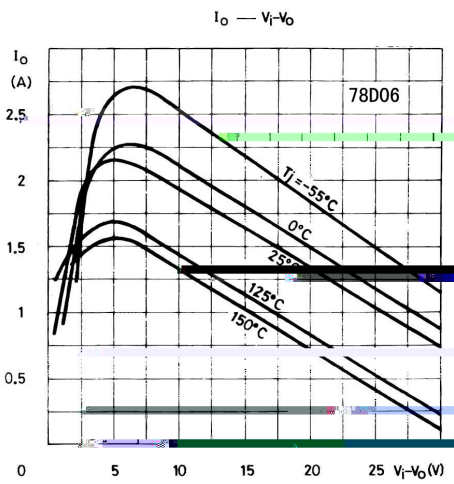
| Parameter | Symbol | Rating | Unit |
|---|---|---|---|
| Input voltage | $V_I$ | 35 | V |
| Thernal Resistance Junction-ambient | $R_{\theta JA}$ | 65 | /W |
| Thernal Resistance Junction-case | $R_{\theta JC}$ | 5.0 | /W |
| Operating Temperature Range | $T_{OPR}$ | -40 125 | |
| Storage temperature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

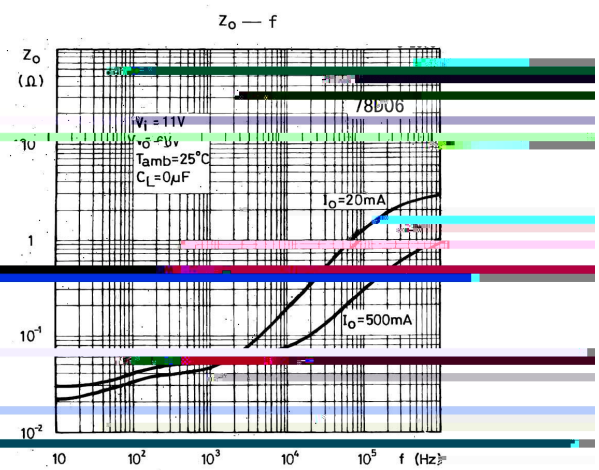
| Parameter | Symbol | Test Conditions | Min | Typ | Max | Unit |
|---|---|---|---|---|---|---|
| Output voltage | $V_O$ | $T_j$=25 | 5.75 | 6.0 | 6.25 | V |
| | | $V_i$=9V-21V, Io=5mA-1A Po≤15W | 5.7 | 6.0 | 6.3 | V |
| Load Regulation | Vo | $T_j$=25 Io=5mA-1.5A | | | 120 | mV |
| | | $T_j$=25 | |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

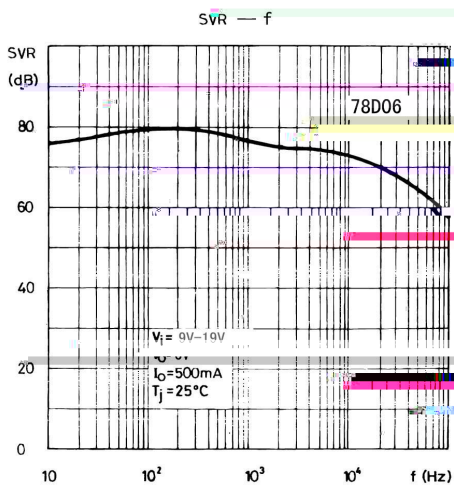
## ƒ Electrical Characteristic Curve

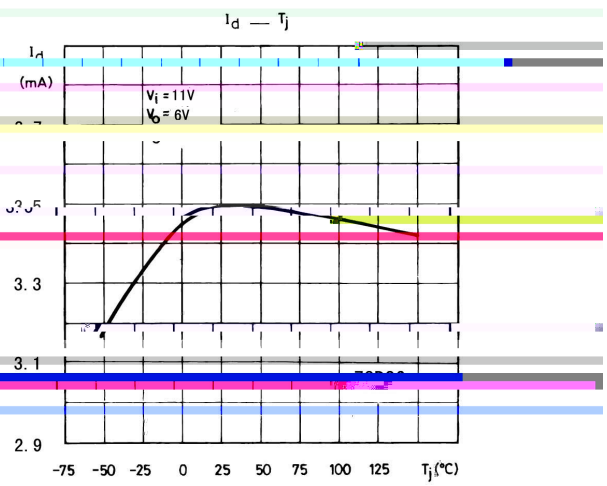


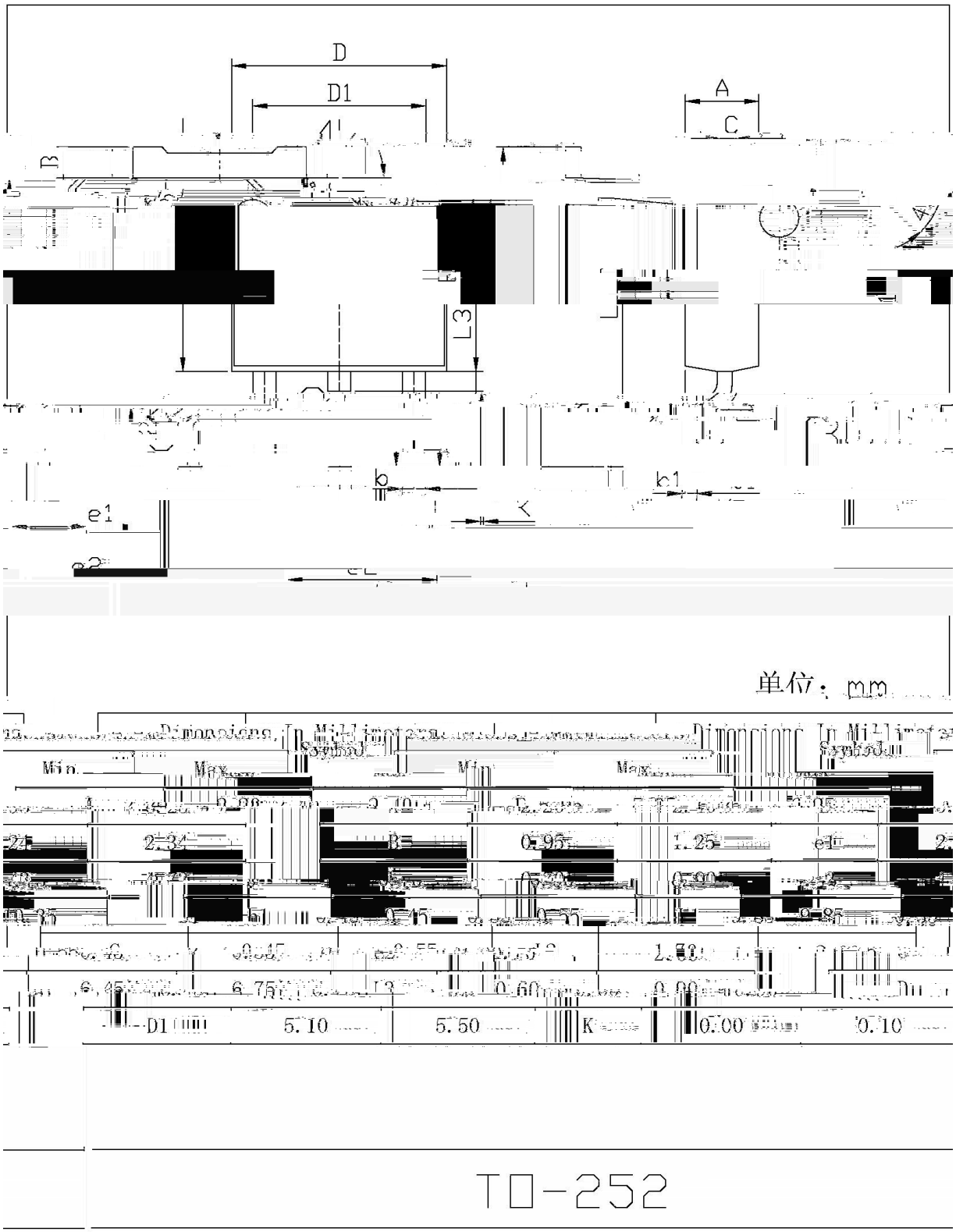



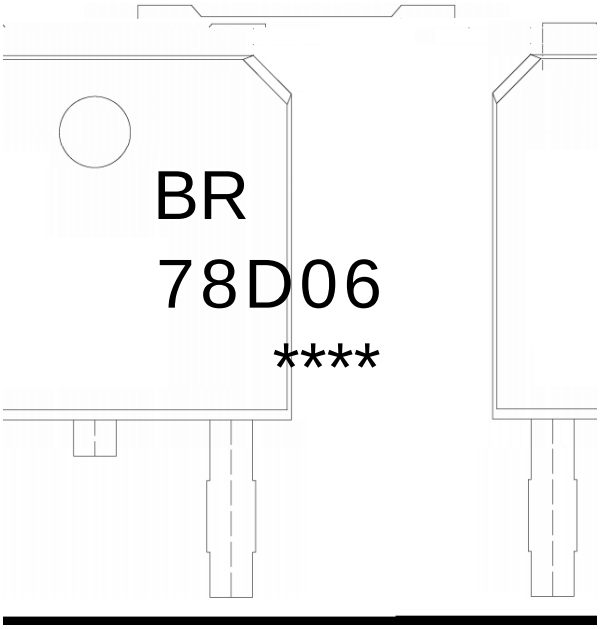



## ᵘ ĖÒĻ ƒ / Package Dimensions



## ł. Ł‘Ω / Marking Instructions




BR

78D06

****

Note:

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

## ȶ ʃ ╗ ẘ ´E ⅵ ʄ (ᾠ ᴗ) / Whp shudwxuh Suriloh iru LU Uhior z Vroghulqj+Se0luhh,

| |
|---|
| |
| |
| |
| |
| |
| |
| |

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.

## ⅃ ȕ ɑ ˝ `Y Ţ / Resistance to Soldering Heat Test Conditions

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

## ɔ ᴇ ᴄ— / Packaging SPEC.

/ 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 |