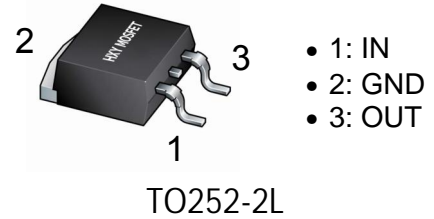




## FEATURES

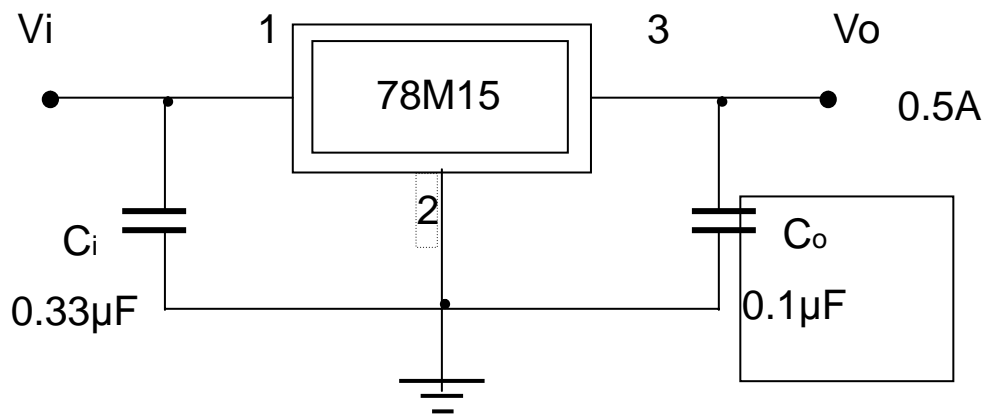
- Maximum Output current  $I_{OM}$ : 0.8A
- Output voltage  $V_O$ : 15V
- Continuous total dissipation  
 $P_D$ : 1.25 W ( $T_a = 25\text{ }^\circ\text{C}$ )



## Package Marking and Ordering Information

| Product ID | Pack     | Marking | Qty(PCS) |
|------------|----------|---------|----------|
| 78M15      | TO252-2L | 78M15   | 2500     |

## Typical Application Circuit





### Absolute Maximum Ratings

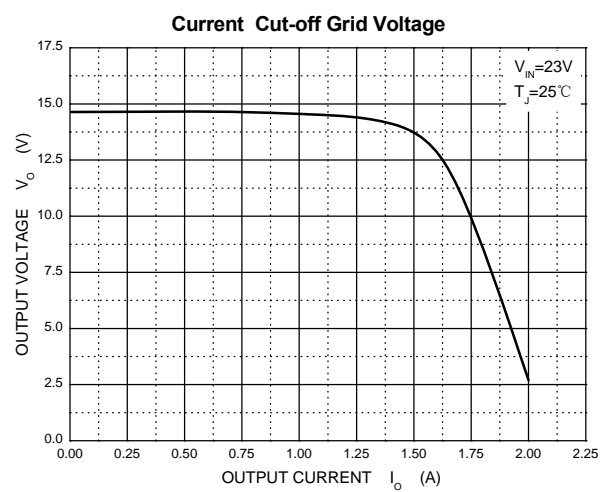
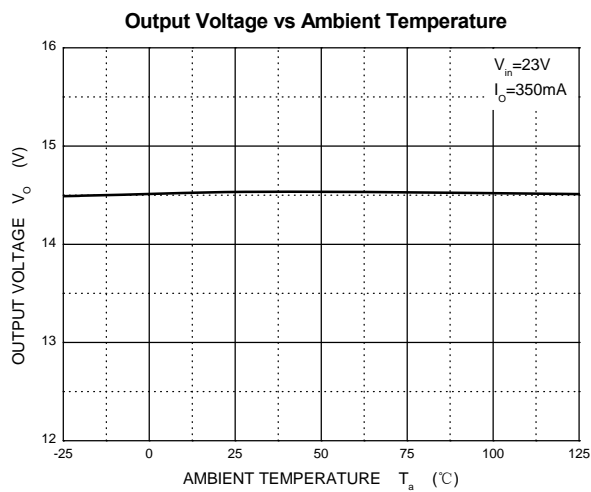
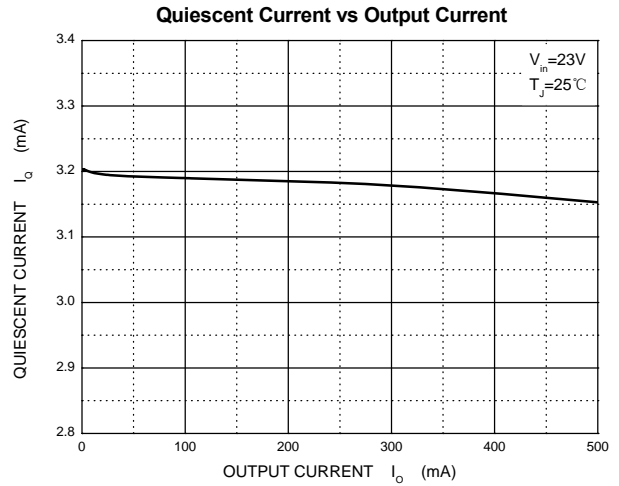
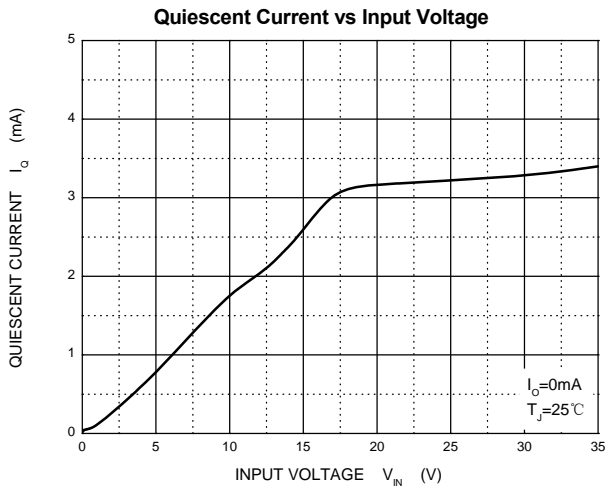
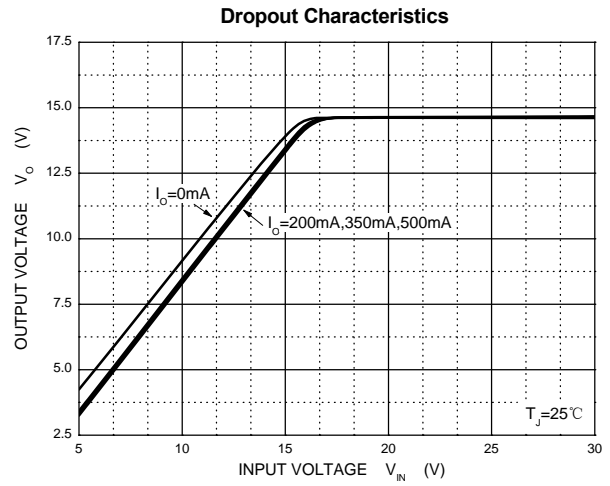
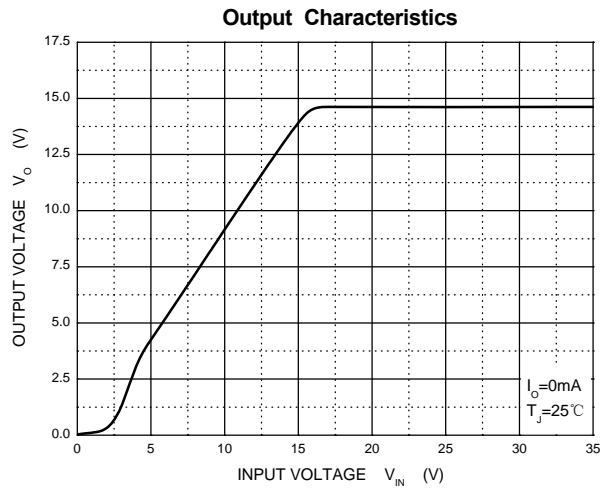
| Parameter                            | Symbol    | Value    | Unit |
|--------------------------------------|-----------|----------|------|
| Input Voltage                        | $V_i$     | 35       | V    |
| Operating Junction Temperature Range | $T_{OPR}$ | 0-+125   | °C   |
| Storage Temperature Range            | $T_{STG}$ | -65-+150 | °C   |

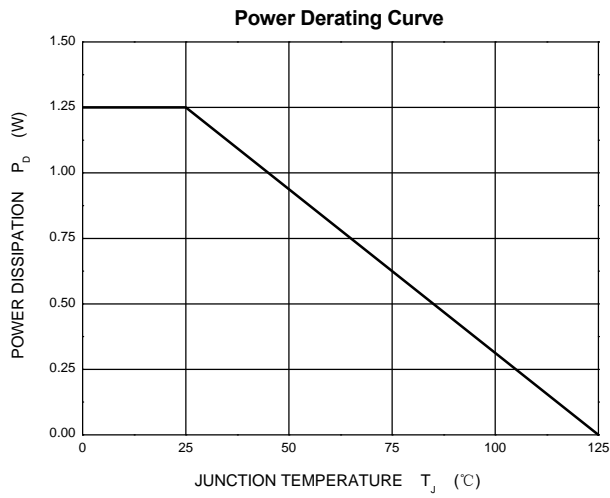
### Electrical Characteristics

| Parameter                | Symbol       | Test conditions   | Min     | Typ   | Max | Unit    |    |
|--------------------------|--------------|---|---------|-------|-----|---------|----|
| Output Voltage           | $V_o$        | $V_i=23V, I_o=350mA$  | 25°C    | 14.4  | 15  | 15.6    | V  |
|                          |              | $17.5V \leq V_i \leq 30V, I_o=5mA \sim 350mA$<br>$P_o \leq 15W$ | 0-125°C | 14.25 | 15  | 15.75   | V  |
| Load Regulation          | $\Delta V_o$ | $I_o=5mA \sim 500mA$  | 25°C    |       |     | 300     | mV |
|                          |              | $I_o=5mA \sim 200mA$  | 25°C    |       |     | 150     | mV |
| Line Regulation          | $\Delta V_o$ | $17.5V \leq V_i \leq 30V, I_o=200mA$                            | 25°C    |       |     | 100     | mV |
|                          |              | $20V \leq V_i \leq 26V, I_o=200mA$                              | 25°C    |       |     | 50      | mV |
| Quiescent Current        | $I_q$        | $V_i=23V, I_o=350mA$  | 25°C    |       |     | 6       | mA |
| Quiescent Current Change | $\Delta I_q$ | $17.5V \leq V_i \leq 30V, I_o=200mA$                            | 0-125°C |       |     | 0.8     | mA |
|                          | $\Delta I_q$ | $V_i=23V, I_o=5mA \sim 350mA$                                   | 0-125°C |       |     | 0.5     | mA |
| Output Noise Voltage     | $V_N$        | $10Hz \leq f \leq 100KHz$                                       | 25°C    |       | 90  | $\mu V$ |    |
| Ripple Rejection         | RR           | $18.5V \leq V_i \leq 28.5V, f=120Hz, I_o=300mA$                 | 0-125°C | 54    |     |         | dB |
| Dropout Voltage          | $V_d$        |   | 25°C    |       | 2   |         | V  |



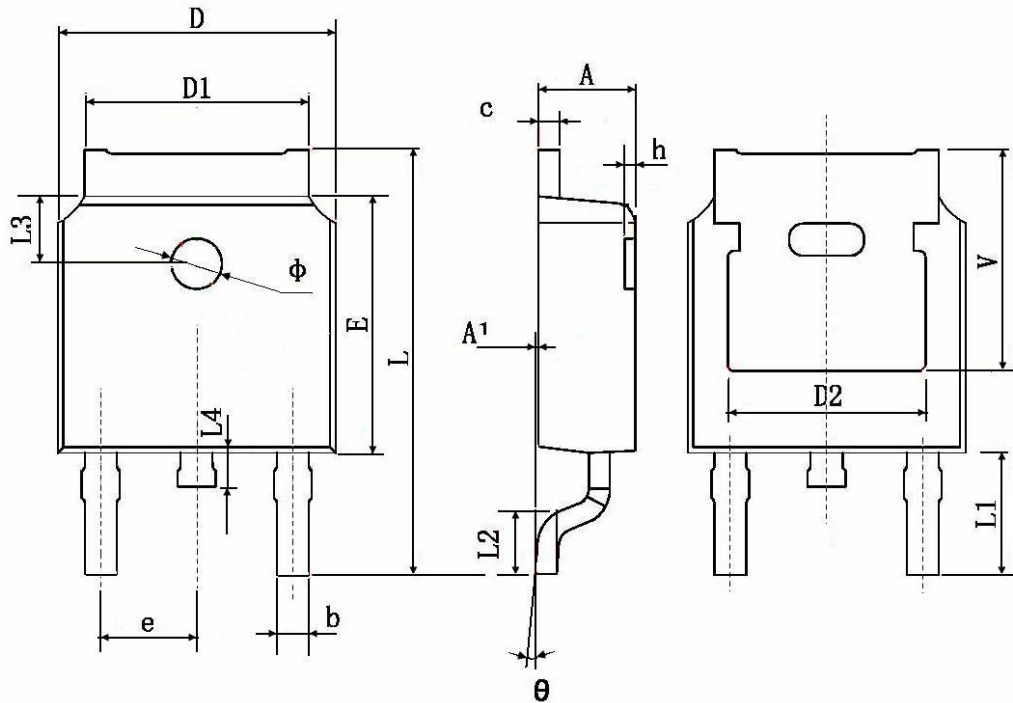
### Typical Characteristics







**TO252-2L Package Information**



| Symbol | Dimensions In Millimeters |        | Dimensions In Inches |       |
|--------|---------------------------|--------|----------------------|-------|
|        | Min.                      | Max.   | Min.                 | Max.  |
| A      | 2.200                     | 2.400  | 0.087                | 0.094 |
| A1     | 0.000                     | 0.127  | 0.000                | 0.005 |
| b      | 0.660                     | 0.860  | 0.026                | 0.034 |
| c      | 0.460                     | 0.580  | 0.018                | 0.023 |
| D      | 6.500                     | 6.700  | 0.256                | 0.264 |
| D1     | 5.100                     | 5.460  | 0.201                | 0.215 |
| D2     | 0.483 TYP.                |        | 0.190 TYP.           |       |
| E      | 6.000                     | 6.200  | 0.236                | 0.244 |
| e      | 2.186                     | 2.386  | 0.086                | 0.094 |
| L      | 9.800                     | 10.400 | 0.386                | 0.409 |
| L1     | 2.900 TYP.                |        | 0.114 TYP.           |       |
| L2     | 1.400                     | 1.700  | 0.055                | 0.067 |
| L3     | 1.600 TYP.                |        | 0.063 TYP.           |       |
| L4     | 0.600                     | 1.000  | 0.024                | 0.039 |
| phi    | 1.100                     | 1.300  | 0.043                | 0.051 |
| theta  | 0°                        | 8°     | 0°                   | 8°    |
| h      | 0.000                     | 0.300  | 0.000                | 0.012 |
| V      | 5.350 TYP.                |        | 0.211 TYP.           |       |



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