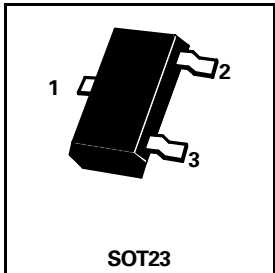
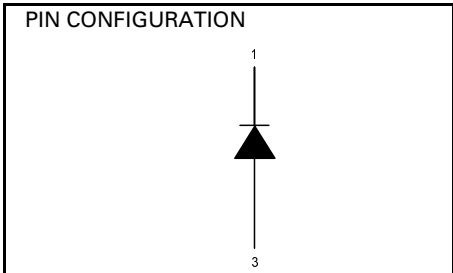


# SOT23 SILICON VOLTAGE REGULATOR DIODES

ISSUE 2 - SEPTEMBER 1995 

**FMMZ5232  
to  
FMMZ5257**



## PARTMARKING DETAILS:

|          |    |          |     |
|----------|----|----------|-----|
| FMMZ5232 | 8G | FMMZ5245 | 8V  |
| FMMZ5233 | 8H | FMMZ5246 | 8W  |
| FMMZ5234 | 8J | FMMZ5247 | 8X  |
| FMMZ5235 | 8K | FMMZ5248 | 8Y  |
| FMMZ5236 | 8L | FMMZ5249 | 8Z  |
| FMMZ5237 | 8M | FMMZ5250 | 81A |
| FMMZ5238 | 8N | FMMZ5251 | 81B |
| FMMZ5239 | 8P | FMMZ5252 | 81C |
| FMMZ5240 | 8Q | FMMZ5253 | 81D |
| FMMZ5241 | 8R | FMMZ5254 | 81E |
| FMMZ5242 | 8S | FMMZ5255 | 81F |
| FMMZ5243 | 8T | FMMZ5256 | 81G |
| FMMZ5244 | 8U | FMMZ5257 | 81H |

## ABSOLUTE MAXIMUM RATINGS.

| PARAMETER                                       | SYMBOL         | VALUE       | UNIT             |
|---|----------------|-------------|------------------|
| Voltage Range                                   | $V_Z$          | 5.6 to 33   | V                |
| Nominal Tolerance                               | $C^*$          | ±5%         | %                |
| Forward Current                                 | $I_F$          | 250         | mA               |
| Power Dissipation at $T_{amb}=25^\circ\text{C}$ | $P_{tot}$      | 330         | mW               |
| Operating and Storage Temperature Range         | $T_j; T_{stg}$ | -55 to +150 | $^\circ\text{C}$ |

\* As per Pro-Electron coding system

# FMMZ5232 to FMMZ5257

## ELECTRICAL CHARACTERISTICS (at $T_{amb} = 25^{\circ}\text{C}$ ).

| Type No  | Nominal Zener Voltage<br>$V_Z @ I_{ZT}$<br><br>V | Test Current<br>$I_{ZT}$<br><br>mA | Max. Zener Impedance          |   | Max. Reverse Leakage Current |           |           | Max. Zener Voltage temperature coefficient<br>$V_Z (\%/^{\circ}\text{C})$ |
|----------|--|------------------------------------|-------------------------------|---|------------------------------|-----------|-----------|---|
|          |  |                                    | $Z_{ZT} @ I_{ZT}$<br>$\Omega$ | $Z_{ZT} @ I_{ZK}$<br>$=0.25\text{mA}$<br>$\Omega$ | $I_R @$                      | $V_R$     | $V_R$     |   |
|          |  |                                    |                               |   | $\mu\text{A}$                | VOLTS (A) | VOLTS (B) |   |
| FMMZ5232 | 5.6  | 20                                 | 11                            | 1600  | 5                            | 2.9       | 3         | +0.038  |
| FMMZ5233 | 6  | 20                                 | 7                             | 1600  | 5                            | 3.3       | 3.5       | +0.038  |
| FMMZ5234 | 6.2  | 20                                 | 7                             | 1000  | 5                            | 3.8       | 4         | +0.045  |
| FMMZ5235 | 6.8  | 20                                 | 5                             | 750   | 3                            | 4.8       | 5         | +0.050  |
| FMMZ5236 | 7.5  | 20                                 | 6                             | 500   | 3                            | 5.7       | 6         | +0.058  |
| FMMZ5237 | 8.2  | 20                                 | 8                             | 500   | 3                            | 6.2       | 6.5       | +0.062  |
| FMMZ5238 | 8.7  | 20                                 | 8                             | 600   | 3                            | 6.2       | 6.5       | +0.065  |
| FMMZ5239 | 9.1  | 20                                 | 10                            | 600   | 3                            | 6.7       | 7         | +0.068  |
| FMMZ5240 | 10   | 20                                 | 17                            | 600   | 3                            | 7.6       | 8         | +0.075  |
| FMMZ5241 | 11   | 20                                 | 22                            | 600   | 2                            | 8         | 8.4       | +0.076  |
| FMMZ5242 | 12   | 20                                 | 30                            | 600   | 1                            | 8.7       | 9.1       | +0.077  |
| FMMZ5243 | 13   | 9.5                                | 13                            | 600   | 0.5                          | 9.4       | 9.9       | +0.079  |
| FMMZ5244 | 14   | 9                                  | 15                            | 600   | 0.1                          | 9.5       | 10        | +0.082  |
| FMMZ5245 | 15   | 8.5                                | 16                            | 600   | 0.1                          | 10.5      | 11        | +0.082  |
| FMMZ5246 | 16   | 7.8                                | 17                            | 600   | 0.1                          | 11.4      | 12        | +0.083  |
| FMMZ5247 | 17   | 7.4                                | 19                            | 600   | 0.1                          | 12.4      | 13        | +0.084  |
| FMMZ5248 | 18   | 7                                  | 21                            | 600   | 0.1                          | 13.3      | 14        | +0.085  |
| FMMZ5249 | 19   | 6.6                                | 23                            | 600   | 0.1                          | 13.3      | 14        | +0.086  |
| FMMZ5250 | 20   | 6.2                                | 25                            | 600   | 0.1                          | 14.3      | 15        | +0.086  |
| FMMZ5251 | 22   | 5.6                                | 29                            | 600   | 0.1                          | 16.2      | 17        | +0.087  |
| FMMZ5252 | 24   | 5.2                                | 33                            | 600   | 0.1                          | 17.1      | 18        | +0.088  |
| FMMZ5253 | 25   | 5                                  | 35                            | 600   | 0.1                          | 18.1      | 19        | +0.089  |
| FMMZ5254 | 27   | 4.6                                | 41                            | 600   | 0.1                          | 20        | 21        | +0.090  |
| FMMZ5255 | 28   | 4.5                                | 44                            | 600   | 0.1                          | 20        | 21        | +0.091  |
| FMMZ5256 | 30   | 4.2                                | 49                            | 600   | 0.1                          | 22        | 23        | +0.091  |
| FMMZ5257 | 33   | 3.8                                | 58                            | 700   | 0.1                          | 24        | 25        | +0.092  |

$V_F = 1.1\text{V max. @ } I_F = 200\text{mA}$  for all types