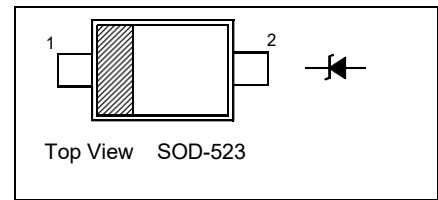


Features

- Standard Zener Breakdown Voltage Range 2.0 V to 75 V
- Steady State Power Rating of 200 mW

PINNING

| PIN | DESCRIPTION |
|-----|-------------|
| 1 | Cathode |
| 2 | Anode |



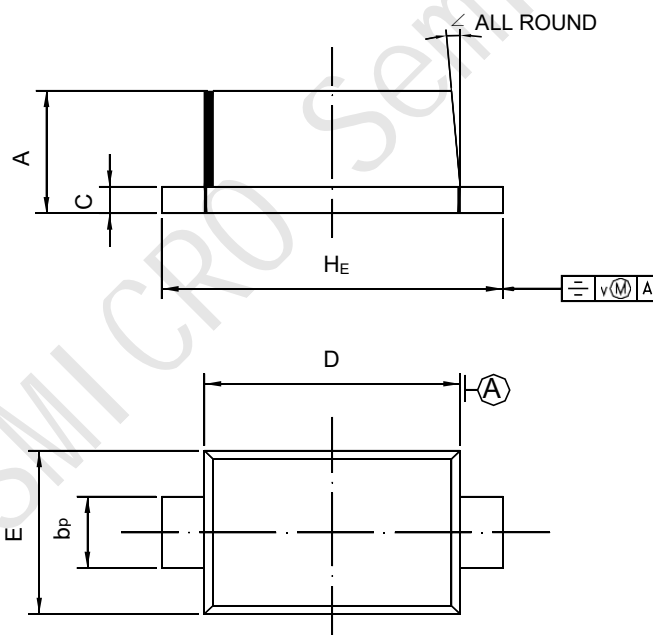
Absolute Maximum Ratings (T_a = 25 °C)

| Parameter | Symbol | Value | Unit |
|--|-----------------------------------|---------------|------|
| Total Device Dissipation | P _{tot} | 200 | mW |
| Junction and Storage Temperature Range | T _j , T _{stg} | - 65 to + 150 | °C |

Characteristics at T_a = 25 °C

| Parameter | Symbol | Max. | Unit |
|---|----------------|------|------|
| Forward Voltage at I _F = 10 mA | V _F | 0.9 | V |

PACKAGE :



SOD-523

| UNIT | A | b _p | C | D | E | H _E | V | ∠ |
|------|--------------|----------------|----------------|--------------|--------------|----------------|-----|----|
| mm | 0.70 0.60 | 0.4 0.3 | 0.135 0.127 | 1.25 1.15 | 0.85 0.75 | 1.7 1.5 | 0.1 | 5° |

| Type | Marking Code | Zener Voltage ¹⁾ | | | | Zener Impedance | | | Leakage Current | |
|------------|--------------|-----------------------------|-------|------|--------------------|-----------------|-----------------|--------------------|-----------------|-------------------|
| | | V _{ZT} (V) | | | at I _{ZT} | Z _{ZT} | Z _{ZK} | at I _{ZK} | I _R | at V _R |
| | | Min. | Nom. | Max. | mA | Ω | Ω | mA | μA | V |
| BZX584C2V0 | RD | 1.8 | 2.0 | 2.15 | 5 | 100 | - | - | 120 | 0.5 |
| BZX584C2V2 | RE | 2.08 | 2.2 | 2.33 | 5 | 100 | - | - | 120 | 0.7 |
| BZX584C2V4 | Z7/00 | 2.2 | 2.4 | 2.6 | 5 | 100 | 1000 | 1 | 120 | 1 |
| BZX584C2V7 | A8/01 | 2.5 | 2.7 | 2.9 | 5 | 100 | 1000 | 1 | 120 | 1 |
| BZX584C3V0 | B8/02 | 2.8 | 3.0 | 3.2 | 5 | 100 | 1000 | 1 | 50 | 1 |
| BZX584C3V3 | C8/05 | 3.1 | 3.3 | 3.5 | 5 | 95 | 1000 | 1 | 20 | 1 |
| BZX584C3V6 | D8/06 | 3.4 | 3.6 | 3.8 | 5 | 90 | 1000 | 1 | 10 | 1 |
| BZX584C3V9 | E8 | 3.7 | 3.9 | 4.1 | 5 | 90 | 1000 | 1 | 5 | 1 |
| BZX584C4V3 | F8/08 | 4 | 4.3 | 4.6 | 5 | 90 | 1000 | 1 | 5 | 1 |
| BZX584C4V7 | G8/09 | 4.4 | 4.7 | 5 | 5 | 80 | 800 | 1 | 2 | 1 |
| BZX584C5V1 | H8/0A | 4.8 | 5.1 | 5.4 | 5 | 60 | 500 | 1 | 2 | 1.5 |
| BZX584C5V6 | I8/0C | 5.2 | 5.6 | 6 | 5 | 40 | 200 | 1 | 1 | 2.5 |
| BZX584C6V2 | J8/0E | 5.8 | 6.2 | 6.6 | 5 | 10 | 100 | 1 | 1 | 3 |
| BZX584C6V8 | K8/0F | 6.4 | 6.8 | 7.2 | 5 | 15 | 160 | 1 | 0.5 | 3.5 |
| BZX584C7V5 | L8/0G | 7 | 7.5 | 7.9 | 5 | 15 | 160 | 1 | 0.5 | 4 |
| BZX584C8V2 | M8/0H | 7.7 | 8.2 | 8.7 | 5 | 15 | 160 | 1 | 0.5 | 5 |
| BZX584C9V1 | N8/0K | 8.5 | 9.1 | 9.6 | 5 | 15 | 160 | 1 | 0.5 | 6 |
| BZX584C10 | O8/0L | 9.4 | 10 | 10.6 | 5 | 20 | 160 | 1 | 0.1 | 7 |
| BZX584C11 | P8/0M | 10.4 | 11 | 11.6 | 5 | 20 | 160 | 1 | 0.1 | 8 |
| BZX584C12 | Q8/0N | 11.4 | 12 | 12.7 | 5 | 25 | 80 | 1 | 0.1 | 9 |
| BZX584C13 | R8/0P | 12.4 | 13.25 | 14.1 | 5 | 30 | 80 | 1 | 0.1 | 10 |
| BZX584C15 | S8/0T | 14.3 | 15 | 15.8 | 5 | 30 | 80 | 1 | 0.1 | 11 |
| BZX584C16 | T8/0U | 15.3 | 16.2 | 17.1 | 2 | 40 | 80 | 1 | 0.1 | 12 |
| BZX584C18 | U8/0W | 16.8 | 18 | 19.1 | 2 | 45 | 80 | 1 | 0.1 | 13 |
| BZX584C20 | V8/0Z | 18.8 | 20 | 21.2 | 2 | 55 | 100 | 1 | 0.1 | 15 |
| BZX584C22 | W8/10 | 20.8 | 22 | 23.3 | 2 | 55 | 100 | 1 | 0.1 | 17 |
| BZX584C24 | X8/11 | 22.8 | 24.2 | 25.6 | 2 | 70 | 120 | 1 | 0.1 | 19 |
| BZX584C27 | Y8/12 | 25.1 | 27 | 28.9 | 2 | 80 | 300 | 1 | 0.1 | 21 |
| BZX584C30 | Z8/14 | 28 | 30 | 32 | 2 | 80 | 300 | 1 | 0.1 | 23 |
| BZX584C33 | A9/18 | 31 | 33 | 35 | 2 | 80 | 300 | 1 | 0.1 | 25 |
| BZX584C36 | B9/19 | 34 | 36 | 38 | 2 | 90 | 500 | 1 | 0.1 | 27 |
| BZX584C39 | C9/20 | 37 | 39 | 41 | 2 | 130 | 500 | 1 | 2 | 30 |
| BZX584C43 | D9/Y15/21 | 40 | 43 | 46 | 1 | 150 | 500 | 1 | 2 | 33 |
| BZX584C47 | E9/1A | 44 | 47 | 50 | 1 | 170 | 500 | 1 | 2 | 36 |
| BZX584C51 | F9/1C | 48 | 51 | 54 | 1 | 180 | 500 | 1 | 1 | 39 |
| BZX584C56 | G9/1D | 52 | 56 | 60 | 1 | 200 | 500 | 1 | 1 | 43 |
| BZX584C62 | H9/1E | 58 | 62 | 66 | 1 | 215 | 500 | 1 | 0.2 | 47 |
| BZX584C68 | I9/1F | 64 | 68 | 72 | 1 | 240 | 500 | 1 | 0.2 | 52 |
| BZX584C75 | J9/1G | 70 | 75 | 79 | 1 | 255 | 500 | 1 | 0.2 | 57 |

¹⁾ Tested with pulses tp = 20 ms.