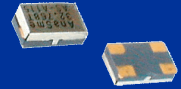


BSM327KA SERIES

32.768kHz CMOS OSCILLATOR

Ceramic LCC Ultra Miniature SMD Package



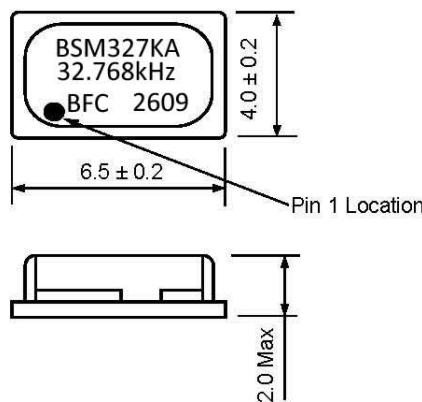
Features:

- **RoHS Compliant**
- SMD Ceramic LCC Ultra Small Package (6.5 x 4.0 x 2.0mm)
- 32.768kHz Square Wave CMOS Output
- Tri-state Enable/Disable Standard
- Tight Stability Over Temperature Range
- Extended Temperature Range (-40°C to 85°C) Available

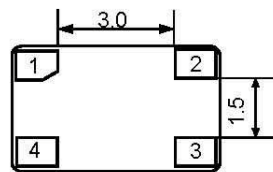
| ELECTRICAL SPECIFICATIONS | | |
|-----------------------------|--------------------------------------|-----------------------------|
| Model | BSM327KA | |
| Frequency | 32.768 KHz | |
| Frequency Stability | +30ppm to 0ppm@25°C(Vcc=2 to6.0VDC) | |
| Stability vs. Temp | +30ppm t -60ppm/-10°C to 60°C | |
| | +30ppm t -200ppm/-40°C to 85°C | |
| Turnover Temperature | 25°C ±5°C on a Parabolic Curve | |
| Operating Temperature Range | -10°C to 60°C / -40°C to 85°C | |
| Storage Temperature Range | -40 to +85°C | |
| Input Voltage | +1.5VDC to 6.0VDC | |
| Input Current | 5 mA Max. (at 3.3V) | |
| Output Load | CMOS: 15 pF Load | |
| Logic"1"/ Logic"0" Level | 0.9Vcc Minimum / 0.1Vcc Maximum | |
| Rise & Fall Time | 200ns Max. | |
| Start-up time | 500ms Max (3.3V, 25°C) | |
| Tristate | 60 / 40% | |
| Part Number Table | | |
| Part Number | Stability vs. Temp | Operating Temperature Range |
| BSM327KA | Blank=+30ppm t -60ppm/-10°C to 60°C | Blank = -10°C to 60°C |
| | S = +30ppm t -200ppm/-40°C to 85°C | M = -40°C to 85°C |

All specifications are subject to change without notice.

All Dimensions are in mm.

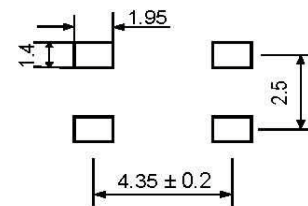


All dimensions are typical unless otherwise specified



Pin Connections
 #1: E/D or NC
 #2: Ground
 #3: Output
 #4: Vcc

Recommended Solder Pad Layout



Dimensions in Millimeters