# Apacer

# The Most **Reliable**
# Storage For Industries

## SV250-300B

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## Overview

Apacer's SV250-300B is a well-balanced solid-state disk (SSD) drive with standard form factor and great performance. Designed in SATA 6.0 Gbps interface, the SSD is able to deliver exceptional read/write speed, making it the ideal companion for heavy-loading industrial or server operations.

SV250-300B utilizes 3D NAND for higher capacity up to 240GB and provides more power efficiency than 2D NAND. SV250-300B is believed to be the leading add-in storage solution for future host computing systems. Regarding reliability, SV250-300B is implemented with LDPC (Low Density Parity Check) ECC engine to extend SSD endurance and increase data reliability while reading raw data inside a flash chip. In addition, the drive comes with various implementations including powerful hardware ECC engine, power saving modes, wear leveling, flash block management, S.M.A.R.T., TRIM and DataDefender™.

In terms of security, Advanced Encryption Standard (AES) and Trusted Computing Group (TCG) Opal ensure data security and provide users with a peace of mind knowing their data is safeguarded against unauthorized use at all times. Furthermore, with End-to-End Data Protection, data integrity can be assured at multiple points in the path to enable reliable delivery of data transfers.
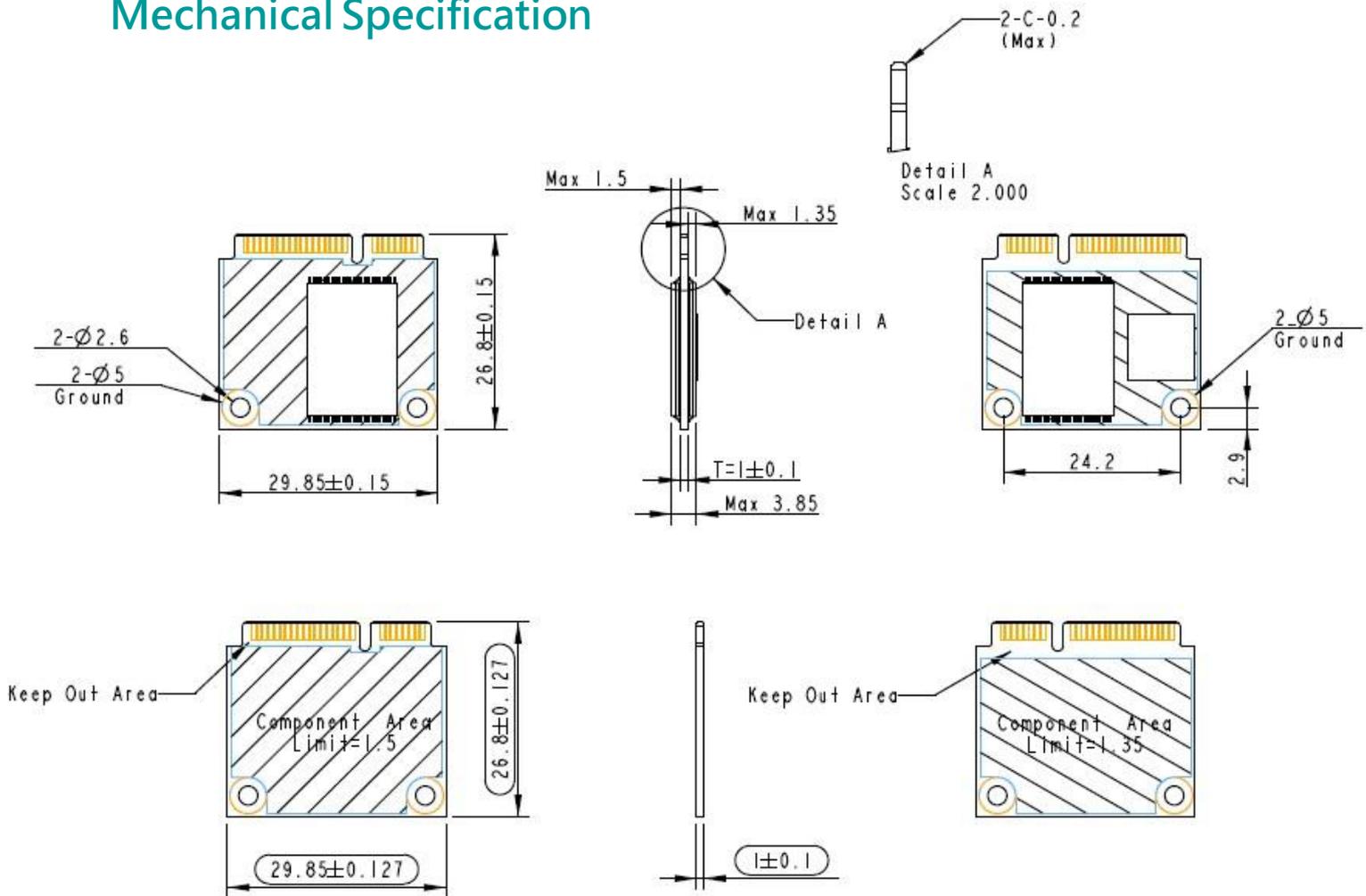
## Feature

- Support LDPC ECC
- Global Wear Leveling technology
- S.M.A.R.T. and SSDWidget support
- End-to-End Data Protection

- TRIM Support
- Support TCG Opal 2.0/AES 256-bit encryption
- DataRAID™
- DataDefender™

# Specifications

| Model | SV250-300B |
|---|---|
| Interface | SATA 3.2 (6Gb/s) |
| Connector | 52-pin mSATA connector |
| Form Factor | mSATA mini, JEDEC MO-300B |
| NAND Flash Type | 3D TLC |
| Capacity | 30GB~240GB |
| External DRAM | No |
| Sustained Read Performance (MB/sec) | Up to 560 |
| Sustained Write Performance (MB/sec) | Up to 510 |
| ECC Engine | Low-Density Parity-Check (LDPC) Code |
| IOPS (4K Random Write) | 74K |
| Standard Operating Temperature ( °C ) | 0 ~ + 70 |
| Extended Operating Temperature ( °C ) | -40 ~ + 85 |
| Storage Temperature ( °C ) | -40 ~ + 100 |
| Thermal Sensor | Yes |
| Shock | Operation: 50G/11ms<br>Non-operation: 1500G/0.5ms<br>(compliant with MIL-STD-883K) |
| Vibration | Operation: 7.69 Grms, 20~2000 Hz/random<br>(compliant with MIL-STD-810G)<br>Non-operation: 4.02 Grms, 15 ~ 2000 Hz/sine<br>(compliant with MIL-STD-810G) |
| Operating Voltage | 3.3 V ±5% |
| Power Consumption | Active mode:425 mA / Idle mode: 115 mA |
| Dimension (L x W x H ) | 29.85 x 26.80 x 3.85 (mm) |
| MTBF (hours) | >1,000,000 |

# Mechanical Specification



2-C-0.2
(Max)

Detail A
Scale 2.000

Max 1.5

Max 1.35

Detail A

26.8±0.15

2-Ø2.6

2-Ø5
Ground

29.85±0.15

T=1±0.1

Max 3.85

2-Ø5
Ground

24.2

2.9

Keep Out Area

Component Area
Limit=1.5

26.8±0.127

29.85±0.127

1±0.1

Keep Out Area

Component Area
Limit=1.35

Unit: mm

## For more information,
## contact your Apacer representative

### Global Presence