

Apacer

The Most **Reliable**
Storage For Industries

SV25P-M280



SV25P-M280

Overview

Apacer's SV25P-M280 is a well-balanced solid-state disk (SSD) drive with standard form factor and great performance. Designed with SATA-based connector pinouts and in SATA 6Gb/s interface, SV25P-M280 provides full compliance with the latest SATA Revision 3.2 interface specifications and delivers exceptional read/write performance up to 555/490 MB/s and 51,000/69,000 in sequential and IOPS read/write, making it the leading add-in storage solution for future host computing systems.



SV25P-M280 utilizes 3D NAND for higher capacity up to 960GB and provides more power efficiency than 2D NAND. Regarding reliability, SV25P-M280 is built with a powerful SATA controller that supports on-the-module ECC as well as efficient Wear Leveling scheme and implemented with LDPC (Low Density Parity Check) ECC engine to extend SSD endurance and increase data reliability.

Furthermore, SV25P-M280 is equipped with a built-in thermal sensor to monitor the temperature of the SSD via S.M.A.R.T commands to prevent overheating. Operating under 6 Gb/s interface, SV25P-M280 is provided with Apacer latest S.M.A.R.T. that is primarily oriented for the latest SATA interface SSD, for drive lifetime monitoring and analysis.

For highly-intensive applications, End-to-End Data Protection ensures that data integrity can be assured at multiple points in the path to enable reliable delivery of data transfers.

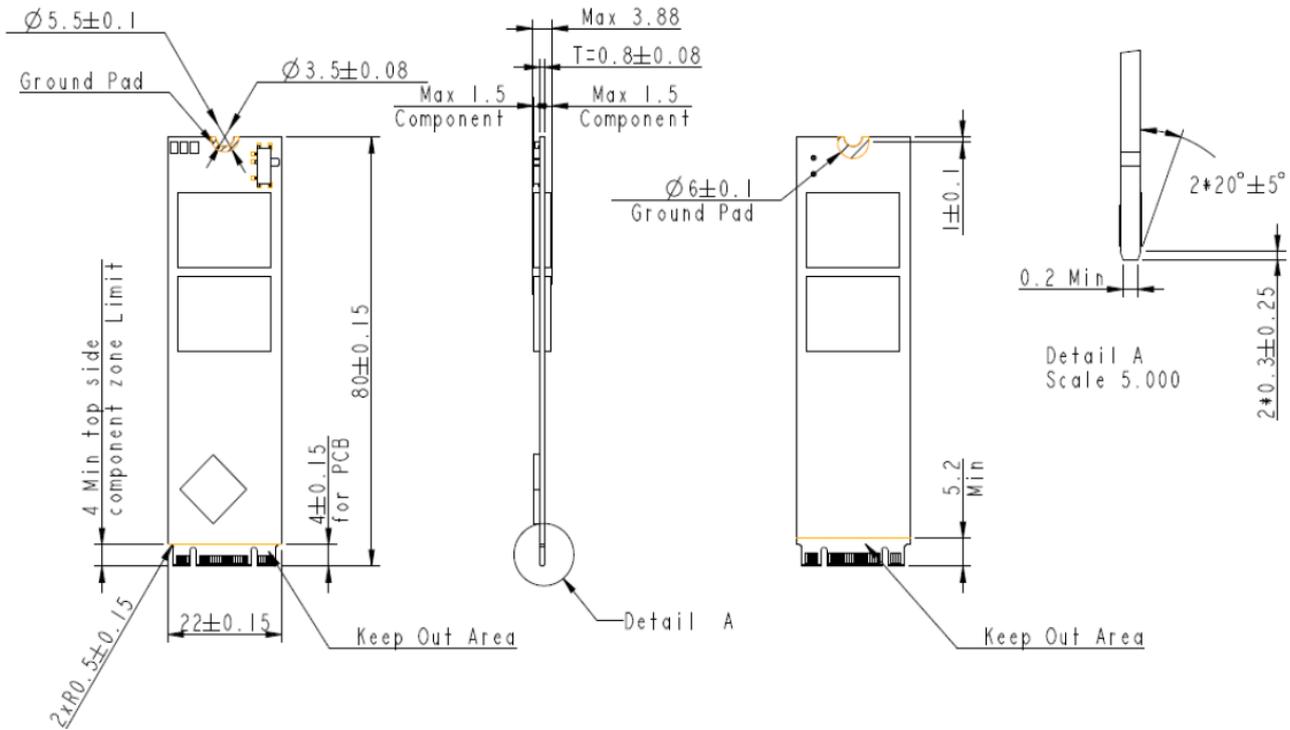
Feature

- Low-Density Parity-Check (LDPC) Code
- Global Wear Leveling
- Flash bad-block management
- Flash Translation Layer: Page Mapping
- S.M.A.R.T.
- ATA Secure Erase
- Device Sleep
- TRIM
- Hyper Cache Technology
- Over-provisioning
- DataRAID™
- SMART Read Refresh™

Specifications

Model	SV25P-M280
Interface	SATA 3.2 (6Gb/s)
Connector	M.2 B & M key
Form Factor	M.2 2280-D5-B-M
NAND Flash Type	3D TLC
Capacity	120GB-960GB
External DRAM	No
Sustained Read Performance (MB/sec)	Up to 555
Sustained Write Performance (MB/sec)	Up to 490
ECC Engine	Low-Density Parity-Check (LDPC) Code
IOPS (4K Random Write)	69K
Standard Operating Temperature (°C)	0 ~ + 70
Extended Operating Temperature (°C)	-40 ~ + 85
Storage Temperature (°C)	-55 ~ + 100
Thermal Sensor	Yes
Shock	Operation: 50G/11ms (compliant with MIL-STD-202G) Non-operation: 1500G/0.5ms (compliant with MIL-STD-883K)
Vibration	Operation: 7.69 Grms, 20~2000 Hz/random (compliant with MIL-STD-810G) Non-operation: 4.02 Grms, 15 ~ 2000 Hz/sine (compliant with MIL-STD-810G)
Operating Voltage	3.3 V ± 5%
Power Consumption	Active mode: 425 mA / Idle mode: 70 mA
Dimension (L x W x H)	80.00 x 22.00 x 3.88 (mm)
MTBF (hours)	>3,000,000

Mechanical Specification



Unit: mm

For more information,
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