

# Apacer

The Most **Reliable**  
Storage For Industries

SV170- $\mu$ SSD



## SV170- $\mu$ SSD

### Overview

Apacer ultra-small 16x20mm SSD- $\mu$ SSD complies with JEDEC MO-276 specification, a maximum sequential read/write speed of 560/460 MB/sec, which integrates key components such as controller, flash in a single chip using a single ball grid array package (BGA) technology, breaking the traditional size restrictions, and is a great leap forward in terms of technology.

In addition, its characteristics such as wide temperature ( $-40^{\circ}\text{C}$  ~  $+85^{\circ}\text{C}$ ) and surface-mount technology (SMT) provide the most stable storage installation for observation and photography even in high altitude.



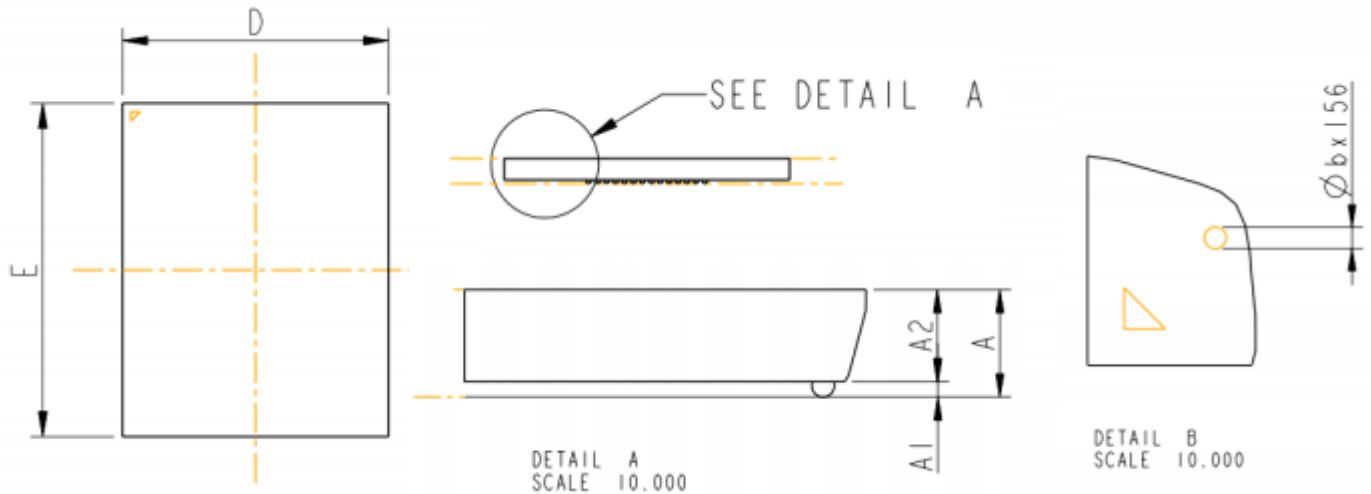
### Feature

- Low-Density Parity-Check (LDPC) Code
- Global Wear Leveling
- Flash bad-block management
- Flash Translation Layer: Page Mapping
- S.M.A.R.T.
- Power Failure Management
- ATA Secure Erase
- Device Sleep
- TRIM
- Hyper Cache Technology
- Over-Provisioning

## Specifications

<b>Model</b>	SV170-μSSD
<b>Interface</b>	SATA 3.2 (6Gb/s)
<b>Connector</b>	BGA 156 Ball
<b>Form Factor</b>	MO-276
<b>NAND Flash Type</b>	TLC
<b>Capacity</b>	30GB~120GB
<b>Sustained Read Performance (MB/sec)</b>	Up to 560
<b>Sustained Write Performance (MB/sec)</b>	Up to 460
<b>ECC Engine</b>	Built-in 72-bit per 1K bytes LDPC ECC
<b>IOPS (4K Random Write)</b>	79K
<b>Standard Operating Temperature ( °C )</b>	0 ~ + 70
<b>Extended Operating Temperature ( °C )</b>	-40 ~ + 85
<b>Storage Temperature ( °C )</b>	-40 ~ + 100
<b>Shock</b>	Operation: 50G/11ms (compliant with MIL-STD-202G) Non-operation: 1500G/0.5ms (compliant with MIL-STD-883K)
<b>Vibration</b>	Operation: 7.69 Grms, 20~2000 Hz/random (compliant with MIL-STD-810G) Non-operation: 4.02Grms, 15~2000 Hz/sine (compliant with MIL-STD-810G)
<b>Operating Voltage</b>	- 3.3V ± 5% - 1.8V ± 5% - 1.2V ± 5%
<b>Power Consumption</b>	Active mode: 380 mA & Idle mode: 95 mA
<b>Dimension (L x W x H )</b>	16 x 20 x 1.4 (mm)
<b>MTBF (hours)</b>	>1,000,000

## Mechanical Specification



Unit: mm

For more information,  
contact your Apacer representative

### Global Presence

Taiwan (Headquarters)  
Apacer Technology Inc.  
Tel: +886-2-2267-8000  
Fax: +886-2-2267-2261

Europe  
Apacer Technology B.V.  
Tel: +31-40-267-0000  
Fax: +31-40-290-0686

U.S.A.  
Apacer Memory America, Inc.  
Tel: +1-408-518-8699  
Fax: 1-510-249-9551

China  
Apacer Electronic(Shanghai)  
Co., Ltd.  
Tel: +86-21-6228-9939

Japan  
Apacer Technology Corp.  
Tel: +81-3-5419-2668  
Fax: +81-3-5419-0018

India  
Apacer Technologies Pvt. Ltd.  
Tel: +91-80-41529061~3  
Fax: +91-80-41700215