

5SGSMD5H2F35C2L





Part Number: 5SGSMD5H2F35C2L

Manufacturer: [Altera \(Intel® Programmable Solutions Group\)](#)

Description: IC FPGA 552 I/O 1152FBGA

Data sheet:  [Stratix V Device Overview](#)  
 [Virtual JTAG Megafuntion User Guide](#)

RoHs Status: Contains lead / RoHS Compliant

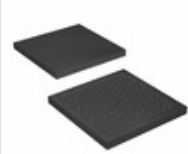
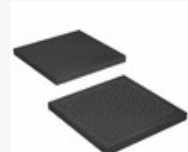
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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                           |                                  |                                                                                                  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|----------------------------------|--------------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 5SGSMD5H2F35C2L                           | Manufacturer                     | <a href="#">Altera (Intel® Programmable Solutions Group)</a>                                     |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                         | IC FPGA 552 I/O 1152FBGA                  | Lead Free Status / RoHS Status   | Contains lead / RoHS Compliant                                                                   |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 12 pcs                                    | Data sheet                       | <a href="#">Stratix V Device Overview</a><br><a href="#">Virtual JTAG Megafuntion User Guide</a> |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <a href="#">Integrated Circuits (ICs)</a> | Voltage - Supply                 | 0.82 V ~ 0.88 V                                                                                  |
| Total RAM Bits                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 46769152                                  | Supplier Device Package          | 1152-FBGA (35x35)                                                                                |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Stratix® V GS                             | Package / Case                   | 1152-BBGA, FCBGA                                                                                 |
| Operating Temperature                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0°C ~ 85°C (TJ)                           | Number of Logic Elements/Cells   | 457000                                                                                           |
| Number of LABs/CLBs                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 172600                                    | Number of I/O                    | 552                                                                                              |
| Mounting Type                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Surface Mount                             | Moisture Sensitivity Level (MSL) | 3 (168 Hours)                                                                                    |
| Lead Free Status / RoHS Status                                                                                                                                                                                                                                                                                                                                                                                                                                      | Contains lead / RoHS Compliant            | Base Part Number                 | 5SGSMD5                                                                                          |
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