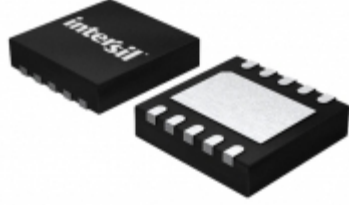


ISL6594BCRZ



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A Renesas Company

Part Number: [ISL6594BCRZ](#)

Manufacturer: [Intersil](#)

Description: IC MOSFET DRVR SYNC BUCK 10-DFN

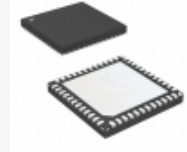
Data sheet:  [ISL6594A](#), [ISL6594B](#)

RoHS Status: Lead free / RoHS Compliant

Ship From: Hong Kong

Shipment Way: DHL/Fedex/TNT/UPS/EMS

| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                           |                                           |                                |                                                       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|--------------------------------|-------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                 | ISL6594BCRZ                               | Manufacturer                   | <a href="#">Intersil</a>                              |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                 | IC MOSFET DRVR SYNC BUCK 10-DFN           | Lead Free Status / RoHS Status | Lead free / RoHS Compliant                            |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                          | 5127 pcs                                  | Data sheet                     | <a href="#">ISL6594A</a> , <a href="#">ISL6594B</a>   |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                    | <a href="#">Integrated Circuits (ICs)</a> | Voltage - Supply               | 10.8 V ~ 13.2 V                                       |
| Supplier Device Package                                                                                                                                                                                                                                                                                                                                                                                                                     | 10-DFN (3x3)                              | Series                         | -                                                     |
| Rise / Fall Time (Typ)                                                                                                                                                                                                                                                                                                                                                                                                                      | 26ns, 18ns                                | Packaging                      | Tube                                                  |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                              | 10-VFDFN Exposed Pad                      | Operating Temperature          | 0°C ~ 125°C (TJ)                                      |
| Number of Drivers                                                                                                                                                                                                                                                                                                                                                                                                                           | 2                                         | Mounting Type                  | Surface Mount                                         |
| Moisture Sensitivity Level (MSL)                                                                                                                                                                                                                                                                                                                                                                                                            | 2 (1 Year)                                | Logic Voltage - VIL, VIH       | -                                                     |
| Lead Free Status / RoHS Status                                                                                                                                                                                                                                                                                                                                                                                                              | Lead free / RoHS Compliant                | Input Type                     | Non-Inverting                                         |
| High Side Voltage - Max (Bootstrap)                                                                                                                                                                                                                                                                                                                                                                                                         | 36V                                       | Gate Type                      | N-Channel MOSFET                                      |
| Driven Configuration                                                                                                                                                                                                                                                                                                                                                                                                                        | Half-Bridge                               | Detailed Description           | Half-Bridge Gate Driver IC Non-Inverting 10-DFN (3x3) |
| Current - Peak Output (Source, Sink)                                                                                                                                                                                                                                                                                                                                                                                                        | 1.25A, 2A                                 | Channel Type                   | Synchronous                                           |
| Base Part Number                                                                                                                                                                                                                                                                                                                                                                                                                            | ISL6594                                   |                                |                                                       |
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| RELATED PRODUCTS                                                                   |                                                                                       |                                         |                |
|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-----------------------------------------|----------------|
|  | Part#: <a href="#">ISL6594BCB</a><br>Description: IC MOSFET DRVR SYNC BUCK 8-SOIC     | Manufacturers: <a href="#">Intersil</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ISL6594DCRZ-T</a><br>Description: IC MOSFET DRVR SYNC BUCK 10-DFN  | Manufacturers: <a href="#">Intersil</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ISL6594BCRZ-T</a><br>Description: IC MOSFET DVR SYNC BUCK 10-DFN   | Manufacturers: <a href="#">Intersil</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ISL6595DRZ-TK</a><br>Description: IC DIGITL MULTIPHASE CTRLR 48QFN | Manufacturers: <a href="#">Intersil</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ISL6594BCR-T</a><br>Description: IC MOSFET DRVR SYNC BUCK 10-DFN   | Manufacturers: <a href="#">Intersil</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ISL6594ACRZ</a><br>Description: IC MOSFET DRVR SYNC BUCK 10-DFN    | Manufacturers: <a href="#">Intersil</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ISL6596CBZ-T</a><br>Description: IC MOSFET DRVR SYNC BUCK 8-SOIC   | Manufacturers: <a href="#">Intersil</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ISL6594ACR-T</a><br>Description: IC MOSFET DRVR SYNC BUCK 10-DFN   | Manufacturers: <a href="#">Intersil</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ISL6594ACRZ-T</a><br>Description: IC MOSFET DRVR SYNC BUCK 10-DFN  | Manufacturers: <a href="#">Intersil</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ISL6596CBZ</a><br>Description: IC MOSFET DRVR SYNC BUCK 8-SOIC     | Manufacturers: <a href="#">Intersil</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ISL6594DCBZ-T</a><br>Description: IC MOSFET DRVR SYNC BUCK 8-SOIC  | Manufacturers: <a href="#">Intersil</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ISL6594BCB-T</a><br>Description: IC MOSFET DRVR SYNC BUCK 8-SOIC   | Manufacturers: <a href="#">Intersil</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ISL6594BCR</a><br>Description: IC MOSFET DRVR SYNC BUCK 10-DFN     | Manufacturers: <a href="#">Intersil</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ISL6594ACR</a><br>Description: IC MOSFET DRVR SYNC BUCK 10-DFN     | Manufacturers: <a href="#">Intersil</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ISL6594BCBZ-T</a><br>Description: IC MOSFET DRVR SYNC BUCK 8-SOIC  | Manufacturers: <a href="#">Intersil</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ISL6595DRZ-T</a><br>Description: IC DIGITL MULTIPHASE CTRLR 48QFN  | Manufacturers: <a href="#">Intersil</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ISL6595DRZ</a><br>Description: IC DIGITL MULTIPHASE CTRLR 48QFN    | Manufacturers: <a href="#">Intersil</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ISL6594DCRZ</a><br>Description: IC MOSFET DRVR SYNC BUCK 10-DFN    | Manufacturers: <a href="#">Intersil</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ISL6594DCBZ</a><br>Description: IC MOSFET DRVR SYNC BUCK 8-SOIC    | Manufacturers: <a href="#">Intersil</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ISL6594BCBZ</a><br>Description: IC MOSFET DRVR SYNC BUCK 8-SOIC    | Manufacturers: <a href="#">Intersil</a> | <div>RFQ</div> |

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