



## **IR2125SPBF Information**



For Reference Only

Part Number IR2125SPBF

Manufacturer Infineon Technologies

Category Integrated Circuits (ICs)
PMIC - Gate Drivers

**Description** IC DRIVER LIMITING 1CHAN 16-SOIC

**Package** 16-SOIC (0.295", 7.50mm Width)

For the pricing/inventory/lead time, please contact

us

Website: https://www.heisener.com E-mail: salesdept@heisener.com



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## **Certified Quality**

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## **IR2125SPBF Specifications**

| Manufacturer Part Number         IR2125SPBF           Manufacturer         Infineon Technologies           Category         Integrated Circuits (ICs)           PMIC - Gate Drivers         PMIC - Gate Drivers           Package         16-SOIC (0.295", 7.50mm Width)           Series         -           Driven Configuration         High-Side           Channel Type         Single           Number of Drivers         1           Gate Type         IGBT, N-Channel MOSFET           Voltage - Supply         0 V ~ 18 V           Logic Voltage - VIL, VIH         0.8V, 2.2V           Current - Peak Output (Source, Sink)         1.6A, 3.3A           Input Type         Non-Inverting           High Side Voltage - Max (Bootstrap)         500V           Rise / Fall Time (Typ)         43ns, 26ns           Operating Temperature         -40°C ~ 150°C (TJ)           Mounting Type         Surface Mount           Package / Case         16-SOIC (0.295", 7.50mm Width) | •                                    |                                |
|--|--------------------------------------|--------------------------------|
| Category  Integrated Circuits (ICs)  PMIC - Gate Drivers  16-SOIC (0.295", 7.50mm Width)  Series  - Driven Configuration  High-Side  Channel Type  Single  Number of Drivers  I Gate Type  IGBT, N-Channel MOSFET  Voltage - Supply  Voltage - Supply  Logic Voltage - VIL, VIH  0.8V, 2.2V  Current - Peak Output (Source, Sink)  Input Type  Non-Inverting  High Side Voltage - Max (Bootstrap)  Rise / Fall Time (Typ)  Operating Temperature  40°C ~ 150°C (TJ)  Mounting Type  Surface Mount  Package / Case  I6-SOIC (0.295", 7.50mm Width)  | Manufacturer Part Number             | IR2125SPBF                     |
| PMIC - Gate Drivers  Package  16-SOIC (0.295", 7.50mm Width)  Series  - Driven Configuration  High-Side  Channel Type  Single  Number of Drivers  1  Gate Type  IGBT, N-Channel MOSFET  Voltage - Supply  Logic Voltage - VIL, VIH  0.8V, 2.2V  Current - Peak Output (Source, Sink)  Input Type  Non-Inverting  High Side Voltage - Max (Bootstrap)  Rise / Fall Time (Typ)  Operating Temperature  -40°C ~ 150°C (TJ)  Mounting Type  Surface Mount  Package / Case  16-SOIC (0.295", 7.50mm Width)  | Manufacturer                         | Infineon Technologies          |
| Package 16-SOIC (0.295", 7.50mm Width)  Series - Driven Configuration High-Side Channel Type Single Number of Drivers 1 Gate Type IGBT, N-Channel MOSFET  Voltage - Supply 0 V ~ 18 V  Logic Voltage - VIL, VIH 0.8V, 2.2V  Current - Peak Output (Source, Sink) 1.6A, 3.3A  Input Type Non-Inverting  High Side Voltage - Max (Bootstrap) 500V  Rise / Fall Time (Typ) 43ns, 26ns  Operating Temperature -40°C ~ 150°C (TJ)  Mounting Type Surface Mount  Package / Case 16-SOIC (0.295", 7.50mm Width)   | Category                             | Integrated Circuits (ICs)      |
| Series - Driven Configuration High-Side Channel Type Single Number of Drivers 1 Gate Type IGBT, N-Channel MOSFET Voltage - Supply 0 V ~ 18 V Logic Voltage - VIL, VIH 0.8V, 2.2V Current - Peak Output (Source, Sink) 1.6A, 3.3A Input Type Non-Inverting High Side Voltage - Max (Bootstrap) 500V Rise / Fall Time (Typ) 43ns, 26ns Operating Temperature -40°C ~ 150°C (TJ) Mounting Type Surface Mount Package / Case 16-SOIC (0.295", 7.50mm Width)  |                                      | PMIC - Gate Drivers            |
| Driven Configuration  Channel Type  Single  Number of Drivers  1  Gate Type  IGBT, N-Channel MOSFET  Voltage - Supply  0 V ~ 18 V  Logic Voltage - VIL, VIH  0.8V, 2.2V  Current - Peak Output (Source, Sink)  Input Type  Non-Inverting  High Side Voltage - Max (Bootstrap)  Rise / Fall Time (Typ)  Operating Temperature  -40°C ~ 150°C (TJ)  Mounting Type  Surface Mount  Package / Case  16-SOIC (0.295", 7.50mm Width)   | Package                              | 16-SOIC (0.295", 7.50mm Width) |
| Channel Type  Number of Drivers  1  Gate Type  IGBT, N-Channel MOSFET  Voltage - Supply  Logic Voltage - VIL, VIH  0.8V, 2.2V  Current - Peak Output (Source, Sink)  Input Type  Non-Inverting  High Side Voltage - Max (Bootstrap)  Rise / Fall Time (Typ)  Operating Temperature  40°C ~ 150°C (TJ)  Mounting Type  Surface Mount  Package / Case  16-SOIC (0.295", 7.50mm Width)  | Series                               | -                              |
| Number of Drivers  Gate Type  IGBT, N-Channel MOSFET  Voltage - Supply  0 V ~ 18 V  Logic Voltage - VIL, VIH  0.8V, 2.2V  Current - Peak Output (Source, Sink)  Input Type  Non-Inverting  High Side Voltage - Max (Bootstrap)  Rise / Fall Time (Typ)  43ns, 26ns  Operating Temperature  -40°C ~ 150°C (TJ)  Mounting Type  Surface Mount  Package / Case  16-SOIC (0.295", 7.50mm Width)  | Driven Configuration                 | High-Side                      |
| Gate Type  IGBT, N-Channel MOSFET  Voltage - Supply  0 V ~ 18 V  Logic Voltage - VIL, VIH  0.8V, 2.2V  Current - Peak Output (Source, Sink)  Input Type  Non-Inverting  High Side Voltage - Max (Bootstrap)  Rise / Fall Time (Typ)  Operating Temperature  -40°C ~ 150°C (TJ)  Mounting Type  Surface Mount  Package / Case  IGBT, N-Channel MOSFET  0 V ~ 18 V  0.8V, 2.2V  Non-Inverting  Yon-Inverting  Surface Mount  16-SOIC (0.295", 7.50mm Width)  | Channel Type                         | Single                         |
| Voltage - Supply  Logic Voltage - VIL, VIH  0.8V, 2.2V  Current - Peak Output (Source, Sink)  Input Type  Non-Inverting  High Side Voltage - Max (Bootstrap)  Rise / Fall Time (Typ)  Operating Temperature  Operating Type  Surface Mount  Package / Case  Overating Temperature  16-SOIC (0.295", 7.50mm Width)  | Number of Drivers                    | 1                              |
| Logic Voltage - VIL, VIH  Current - Peak Output (Source, Sink)  Input Type  Non-Inverting  High Side Voltage - Max (Bootstrap)  Rise / Fall Time (Typ)  Operating Temperature  Operating Type  Surface Mount  Package / Case  One Non-Inverting  43ns, 26ns  -40°C ~ 150°C (TJ)  Surface Mount  16-SOIC (0.295", 7.50mm Width)   | Gate Type                            | IGBT, N-Channel MOSFET         |
| Current - Peak Output (Source, Sink)  Input Type  Non-Inverting  High Side Voltage - Max (Bootstrap)  Rise / Fall Time (Typ)  Operating Temperature  Operating Type  Surface Mount  Package / Case  16-SOIC (0.295", 7.50mm Width)   | Voltage - Supply                     | 0 V ~ 18 V                     |
| Input Type  High Side Voltage - Max (Bootstrap)  Rise / Fall Time (Typ)  Operating Temperature  Operating Type  Surface Mount  Package / Case  Non-Inverting  Non-Inverting  500V  43ns, 26ns  -40°C ~ 150°C (TJ)  Surface Mount  16-SOIC (0.295", 7.50mm Width)   | Logic Voltage - VIL, VIH             | 0.8V, 2.2V                     |
| High Side Voltage - Max (Bootstrap) $500V$ Rise / Fall Time (Typ) $43ns, 26ns$ Operating Temperature $-40^{\circ}\text{C} \sim 150^{\circ}\text{C}$ (TJ)Mounting TypeSurface MountPackage / Case $16\text{-SOIC}$ (0.295", 7.50mm Width)   | Current - Peak Output (Source, Sink) | 1.6A, 3.3A                     |
| Rise / Fall Time (Typ) 43ns, 26ns  Operating Temperature $-40^{\circ}\text{C} \sim 150^{\circ}\text{C}$ (TJ)  Mounting Type Surface Mount  Package / Case 16-SOIC (0.295", 7.50mm Width)   | Input Type                           | Non-Inverting                  |
| Operating Temperature $-40^{\circ}\text{C} \sim 150^{\circ}\text{C} \text{ (TJ)}$ Mounting Type Surface Mount  Package / Case 16-SOIC (0.295", 7.50mm Width)   | High Side Voltage - Max (Bootstrap)  | 500V                           |
| Mounting Type Surface Mount Package / Case 16-SOIC (0.295", 7.50mm Width)  | Rise / Fall Time (Typ)               | 43ns, 26ns                     |
| Package / Case 16-SOIC (0.295", 7.50mm Width)  | Operating Temperature                | -40°C ~ 150°C (TJ)             |
|  | Mounting Type                        | Surface Mount                  |
| Symplica Davice Peetrone   | Package / Case                       | 16-SOIC (0.295", 7.50mm Width) |
| Supplier Device Package 10-SOIC  | Supplier Device Package              | 16-SOIC                        |
| Report errors?   |                                      | Report errors?                 |

### **IR2125SPBF** Guarantees



#### **Quality Guarantees**

We provide 90 days warranty. \*

If the items you received were not in perfect quality, we would be responsible for your refund or replacement, but the items must be returned in their original condition.



#### **Service Guarantees**

We guarantee 100% customer satisfaction.

Our experienced sales team and tech support team back our services to satisfy all our customers.

# **IR2125SPBF Payment Methods**



















## **IR2125SPBF Shipping Methods**













If you have any question about IR2125SPBF, please do not hesitate to contact us!

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