



#### **IRS21856STRPBF Information**



For Reference Only

Part Number IRS21856STRPBF

Manufacturer Infineon Technologies

Category Integrated Circuits (ICs)
PMIC - Gate Drivers

**Description** IC DVR HI/LOW SIDE 600V 14SOIC **Package** 14-SOIC (0.154", 3.90mm Width)

For the pricing/inventory/lead time, please contact

us

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## **IRS21856STRPBF Specifications**

Manufacturer Part Number  Manufacturer  Infineon Technologies  Integrated Circuits (ICs)  PMIC - Gate Drivers  Package  14-SOIC (0.154", 3.90mm Width)  Series  - Driven Configuration  Half-Bridge  Channel Type  Independent  Number of Drivers  2  Gate Type  IGBT, N-Channel MOSFET  Voltage - Supply  Logic Voltage - VIL, VIH  0.8V, 3.5V  Current - Peak Output (Source, Sink)  Input Type  Non-Inverting  High Side Voltage - Max (Bootstrap)  Rise / Fall Time (Typ)  Operating Temperature  -55°C ~ 150°C (TJ)  Mounting Type  Surface Mount  Package / Case  14-SOIC (0.154", 3.90mm Width)  Supplier Device Package  14-SOIC  Report errors?		
CategoryIntegrated Circuits (ICs)PACKAGEPMIC - Gate DriversPackage14-SOIC (0.154", 3.90mm Width)Series-Driven ConfigurationHalf-BridgeChannel TypeIndependentNumber of Drivers2Gate TypeIGBT, N-Channel MOSFETVoltage - Supply10 V ~ 20 VLogic Voltage - VIL, VIH0.8V, 3.5VCurrent - Peak Output (Source, Sink)500mA, 500mAInput TypeNon-InvertingHigh Side Voltage - Max (Bootstrap)600VRise / Fall Time (Typ)30ns, 20nsOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountPackage / Case14-SOIC (0.154", 3.90mm Width)Supplier Device Package14-SOIC	Manufacturer Part Number	IRS21856STRPBF
Package 14-SOIC (0.154", 3.90mm Width)  Series - Driven Configuration Half-Bridge Channel Type Independent Number of Drivers 2 Gate Type IGBT, N-Channel MOSFET  Voltage - Supply 10 V ~ 20 V  Logic Voltage - VIL, VIH 0.8V, 3.5V  Current - Peak Output (Source, Sink) 500mA, 500mA  Input Type Non-Inverting High Side Voltage - Max (Bootstrap) 600V  Rise / Fall Time (Typ) 30ns, 20ns  Operating Temperature -55°C ~ 150°C (TJ)  Mounting Type Surface Mount Package / Case 14-SOIC (0.154", 3.90mm Width) Supplier Device Package	Manufacturer	Infineon Technologies
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Driven Configuration  Channel Type  Independent  Number of Drivers  2  Gate Type  IGBT, N-Channel MOSFET  Voltage - Supply  Logic Voltage - VIL, VIH  0.8V, 3.5V  Current - Peak Output (Source, Sink)  Input Type  Non-Inverting  High Side Voltage - Max (Bootstrap)  Rise / Fall Time (Typ)  Operating Temperature  -55°C ~ 150°C (TJ)  Mounting Type  Surface Mount  Package / Case  14-SOIC (0.154", 3.90mm Width)  Supplier Device Package	Package	14-SOIC (0.154", 3.90mm Width)
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Number of Drivers  Gate Type  IGBT, N-Channel MOSFET  Voltage - Supply  Logic Voltage - VIL, VIH  0.8V, 3.5V  Current - Peak Output (Source, Sink)  Input Type  Non-Inverting  High Side Voltage - Max (Bootstrap)  Rise / Fall Time (Typ)  Operating Temperature  -55°C ~ 150°C (TJ)  Mounting Type  Surface Mount  Package / Case  14-SOIC (0.154", 3.90mm Width)  Supplier Device Package	Driven Configuration	Half-Bridge
Gate Type  IGBT, N-Channel MOSFET  Voltage - Supply  10 V ~ 20 V  Logic Voltage - VIL, VIH  0.8V, 3.5V  Current - Peak Output (Source, Sink)  Input Type  Non-Inverting  High Side Voltage - Max (Bootstrap)  Rise / Fall Time (Typ)  Operating Temperature  -55°C ~ 150°C (TJ)  Mounting Type  Surface Mount  Package / Case  14-SOIC (0.154", 3.90mm Width)  Supplier Device Package	Channel Type	Independent
Voltage - Supply  Logic Voltage - VIL, VIH  0.8V, 3.5V  Current - Peak Output (Source, Sink)  Input Type  Non-Inverting  High Side Voltage - Max (Bootstrap)  Rise / Fall Time (Typ)  Operating Temperature  -55°C ~ 150°C (TJ)  Mounting Type  Surface Mount  Package / Case  14-SOIC (0.154", 3.90mm Width)  Supplier Device Package	Number of Drivers	2
Logic Voltage - VIL, VIH  O.8V, 3.5V  Current - Peak Output (Source, Sink)  Input Type  Non-Inverting  High Side Voltage - Max (Bootstrap)  Rise / Fall Time (Typ)  Operating Temperature  -55°C ~ 150°C (TJ)  Mounting Type  Surface Mount  Package / Case  14-SOIC (0.154", 3.90mm Width)  Supplier Device Package	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  14-SOIC (0.154", 3.90mm Width)  Supplier Device Package	Voltage - Supply	10 V ~ 20 V
Input Type  Non-Inverting  High Side Voltage - Max (Bootstrap)  600V  Rise / Fall Time (Typ)  30ns, 20ns  Operating Temperature  -55°C ~ 150°C (TJ)  Mounting Type  Surface Mount  Package / Case  14-SOIC (0.154", 3.90mm Width)  Supplier Device Package	Logic Voltage - VIL, VIH	0.8V, 3.5V
High Side Voltage - Max (Bootstrap)  Rise / Fall Time (Typ)  Operating Temperature  -55°C ~ 150°C (TJ)  Mounting Type  Surface Mount  Package / Case  14-SOIC (0.154", 3.90mm Width)  Supplier Device Package	Current - Peak Output (Source, Sink)	500mA, 500mA
Rise / Fall Time (Typ)  Operating Temperature  -55°C ~ 150°C (TJ)  Mounting Type  Surface Mount  Package / Case  14-SOIC (0.154", 3.90mm Width)  Supplier Device Package	Input Type	Non-Inverting
Operating Temperature  -55°C ~ 150°C (TJ)  Mounting Type  Surface Mount  Package / Case  14-SOIC (0.154", 3.90mm Width)  Supplier Device Package  14-SOIC	High Side Voltage - Max (Bootstrap)	600V
Mounting Type Surface Mount Package / Case 14-SOIC (0.154", 3.90mm Width) Supplier Device Package 14-SOIC	Rise / Fall Time (Typ)	30ns, 20ns
Package / Case 14-SOIC (0.154", 3.90mm Width) Supplier Device Package 14-SOIC	Operating Temperature	-55°C ~ 150°C (TJ)
Supplier Device Package 14-SOIC	Mounting Type	Surface Mount
	Package / Case	14-SOIC (0.154", 3.90mm Width)
Report errors?	Supplier Device Package	14-SOIC
		Report errors?

#### **IRS21856STRPBF** 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.

### **IRS21856STRPBF Payment Methods**



















## **IRS21856STRPBF Shipping Methods**













If you have any question about IRS21856STRPBF, please do not hesitate to contact us!

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