

# **S-8521E15MC-BLAT2U**

### S-8521E15MC-BLAT2U Information



For Reference Only

**Part Number** S-8521E15MC-BLAT2U

Manufacturer SII Semiconductor Corporation

Category Integrated Circuits (ICs)

PMIC - Voltage Regulators - DC DC Switching

Controllers

**Description** IC REG CTRLR BUCK SOT23-5

Package SC-74A, SOT-753

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**

Heisener's commitment to quality has shaped our processes for sourcing, testing, shipping, and every step in between. This foundation underlies each component we sell.









## S-8521E15MC-BLAT2U Specifications

| Manufacturer Part Number         S-8521E15MC-BLAT2U           Manufacturer         SII Semiconductor Corporation           Category         Integrated Circuits (ICs)           Package         SC-74A, SOT-753           Series         -           Output Type         Transistor Driver           Function         Step-Down           Output Configuration         Positive           Topology         Buck           Number of Outputs         1           Output Phases         1           Voltage - Supply (Vcc/Vdd)         2.5 V ~ 10 V           Frequency - Switching         300kHz           Duty Cycle (Max)         100%           Synchronous Rectifier         No           Clock Sync         No           Serial Interfaces         -           Control Features         Enable           Operating Temperature         -40°C ~ 85°C (TA)           Package / Case         SC-74A, SOT-753           Supplier Device Package         SOT-23-5 |                            |                                                            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|------------------------------------------------------------|
| Category         Integrated Circuits (ICs)           PMIC - Voltage Regulators - DC DC Switching Controllers           Package         SC-74A, SOT-753           Series         -           Output Type         Transistor Driver           Function         Step-Down           Output Configuration         Positive           Topology         Buck           Number of Outputs         1           Output Phases         1           Voltage - Supply (Vcc/Vdd)         2.5 V ~ 10 V           Frequency - Switching         300kHz           Duty Cycle (Max)         100%           Synchronous Rectifier         No           Clock Sync         No           Serial Interfaces         -           Control Features         Enable           Operating Temperature         -40°C ~ 85°C (TA)           Package / Case         SC-74A, SOT-753           Supplier Device Package         SOT-23-5                                                          | Manufacturer Part Number   | S-8521E15MC-BLAT2U                                         |
| Package SC-74A, SOT-753  Series - Output Type Transistor Driver  Function Step-Down Output Configuration Positive  Topology Buck Number of Outputs 1 Output Phases 1 Voltage - Supply (Vcc/Vdd) 2.5 V ~ 10 V  Frequency - Switching 300kHz Duty Cycle (Max) 100%  Synchronous Rectifier No Clock Sync No Serial Interfaces - Control Features Enable Operating Temperature -40°C ~ 85°C (TA) Package / Case SOT-23-5  SUPPLICE A Transistor Driver Switching Controllers  SC-74A, SOT-753 Supplier Device Package SC-74A, SOT-753 Supplier Device Package SC-74A, SOT-753 Supplier Device Package SC-74A, SOT-753                                                                                                                                                                                                                                                                                                                                                 | Manufacturer               | SII Semiconductor Corporation                              |
| Package         SC-74A, SOT-753           Series         -           Output Type         Transistor Driver           Function         Step-Down           Output Configuration         Positive           Topology         Buck           Number of Outputs         1           Output Phases         1           Voltage - Supply (Vcc/Vdd)         2.5 V ~ 10 V           Frequency - Switching         300kHz           Duty Cycle (Max)         100%           Synchronous Rectifier         No           Clock Sync         No           Serial Interfaces         -           Control Features         Enable           Operating Temperature         -40°C ~ 85°C (TA)           Package / Case         SC-74A, SOT-753           Supplier Device Package         SOT-23-5                                                                                                                                                                                 | Category                   | Integrated Circuits (ICs)                                  |
| Series         -           Output Type         Transistor Driver           Function         Step-Down           Output Configuration         Positive           Topology         Buck           Number of Outputs         1           Output Phases         1           Voltage - Supply (Vcc/Vdd)         2.5 V ~ 10 V           Frequency - Switching         300kHz           Duty Cycle (Max)         100%           Synchronous Rectifier         No           Clock Sync         No           Serial Interfaces         -           Control Features         Enable           Operating Temperature         -40°C ~ 85°C (TA)           Package / Case         SC-74A, SOT-753           Supplier Device Package         SOT-23-5                                                                                                                                                                                                                           |                            | PMIC - Voltage Regulators - DC DC Switching Controllers    |
| Output TypeTransistor DriverFunctionStep-DownOutput ConfigurationPositiveTopologyBuckNumber of Outputs1Output Phases1Voltage - Supply (Vcc/Vdd)2.5 V ~ 10 VFrequency - Switching300kHzDuty Cycle (Max)100%Synchronous RectifierNoClock SyncNoSerial Interfaces-Control FeaturesEnableOperating Temperature-40°C ~ 85°C (TA)Package / CaseSC-74A, SOT-753Supplier Device PackageSOT-23-5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Package                    | SC-74A, SOT-753                                            |
| Function Step-Down Output Configuration Positive Topology Buck Number of Outputs 1 Output Phases 1 Voltage - Supply (Vcc/Vdd) 2.5 V ~ 10 V Frequency - Switching 300kHz Duty Cycle (Max) 100% Synchronous Rectifier No Clock Sync No Serial Interfaces - Control Features Enable Operating Temperature -40°C ~ 85°C (TA) Package / Case SC-74A, SOT-753 Supplier Device Package SC-35-5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Series                     | -                                                          |
| Output ConfigurationPositiveTopologyBuckNumber of Outputs1Output Phases1Voltage - Supply (Vcc/Vdd)2.5 V ~ 10 VFrequency - Switching300kHzDuty Cycle (Max)100%Synchronous RectifierNoClock SyncNoSerial Interfaces-Control FeaturesEnableOperating Temperature-40°C ~ 85°C (TA)Package / CaseSC-74A, SOT-753Supplier Device PackageSOT-23-5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Output Type                | Transistor Driver                                          |
| Topology Buck Number of Outputs 1 Output Phases 1 Voltage - Supply (Vcc/Vdd) 2.5 V ~ 10 V Frequency - Switching 300kHz Duty Cycle (Max) 100% Synchronous Rectifier No Clock Sync No Serial Interfaces - Control Features Enable Operating Temperature -40°C ~ 85°C (TA) Package / Case SC-74A, SOT-753 Supplier Device Package SOT-23-5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Function                   | Step-Down                                                  |
| Number of Outputs1Output Phases1Voltage - Supply (Vcc/Vdd)2.5 V ~ 10 VFrequency - Switching300kHzDuty Cycle (Max)100%Synchronous RectifierNoClock SyncNoSerial Interfaces-Control FeaturesEnableOperating Temperature-40°C ~ 85°C (TA)Package / CaseSC-74A, SOT-753Supplier Device PackageSOT-23-5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Output Configuration       | Positive                                                   |
| Output Phases  Voltage - Supply (Vcc/Vdd)  2.5 V ~ 10 V  Frequency - Switching  300kHz  Duty Cycle (Max)  100%  Synchronous Rectifier  No  Clock Sync  No  Serial Interfaces  - Control Features  Enable  Operating Temperature  -40°C ~ 85°C (TA)  Package / Case  SUPPlier Device Package  SOT-23-5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Topology                   | Buck                                                       |
| Voltage - Supply (Vcc/Vdd)2.5 V ~ 10 VFrequency - Switching300kHzDuty Cycle (Max)100%Synchronous RectifierNoClock SyncNoSerial Interfaces-Control FeaturesEnableOperating Temperature-40°C ~ 85°C (TA)Package / CaseSC-74A, SOT-753Supplier Device PackageSOT-23-5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Number of Outputs          | 1                                                          |
| Frequency - Switching  Duty Cycle (Max)  100%  Synchronous Rectifier  No  Clock Sync  No  Serial Interfaces  -  Control Features  Enable  Operating Temperature  -40°C ~ 85°C (TA)  Package / Case  SUPPlier Device Package  SOT-23-5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Output Phases              | 1                                                          |
| Duty Cycle (Max)  Synchronous Rectifier  No  Clock Sync  No  Serial Interfaces  -  Control Features  Enable  Operating Temperature  -40°C ~ 85°C (TA)  Package / Case  SUpplier Device Package  SOT-23-5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Voltage - Supply (Vcc/Vdd) | 2.5 V ~ 10 V                                               |
| Synchronous Rectifier  No  Clock Sync  No  Serial Interfaces  -  Control Features  Enable  Operating Temperature  -40°C ~ 85°C (TA)  Package / Case  SC-74A, SOT-753  Supplier Device Package  SOT-23-5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Frequency - Switching      | 300kHz                                                     |
| Clock Sync  Serial Interfaces  Control Features  Enable  Operating Temperature  -40°C ~ 85°C (TA)  Package / Case  SC-74A, SOT-753  Supplier Device Package  SOT-23-5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Duty Cycle (Max)           | 100%                                                       |
| Serial Interfaces  Control Features  Enable  Operating Temperature  -40°C ~ 85°C (TA)  Package / Case  SC-74A, SOT-753  Supplier Device Package  SOT-23-5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Synchronous Rectifier      | No                                                         |
| Control Features  Enable  Operating Temperature  -40°C ~ 85°C (TA)  Package / Case  SC-74A, SOT-753  Supplier Device Package  SOT-23-5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Clock Sync                 | No                                                         |
| Operating Temperature -40°C ~ 85°C (TA)  Package / Case SC-74A, SOT-753  Supplier Device Package SOT-23-5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Serial Interfaces          | -                                                          |
| Package / Case SC-74A, SOT-753 Supplier Device Package SOT-23-5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Control Features           | Enable                                                     |
| Supplier Device Package SOT-23-5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Operating Temperature      | $-40^{\circ}\text{C} \sim 85^{\circ}\text{C} \text{ (TA)}$ |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Package / Case             | SC-74A, SOT-753                                            |
| Report errors?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Supplier Device Package    | SOT-23-5                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                            | Report errors?                                             |

### S-8521E15MC-BLAT2U Guarantees



### **Ouality 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.

## S-8521E15MC-BLAT2U Payment Methods



















## S-8521E15MC-BLAT2U Shipping Methods













If you have any question about S-8521E15MC-BLAT2U, please do not hesitate to contact us!

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