

#### **BTS452TT Information**



For Reference Only

Part Number BTS452TT

Manufacturer Infineon Technologies

Category Integrated Circuits (ICs)

PMIC - Power Distribution Switches, Load Drivers

**Description**IC PWR SWITCH 60V HISIDE DPAK-5**Package**TO-252-5, DPak (4 Leads + Tab), TO-252AD

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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# **BTS452TT Specifications**

| Manufacturer Part Number         BTS452TT           Manufacturer         Infineon Technologies           Category         Integrated Circuits (ICs)           PMIC - Power Distribution Switches, Load Drivers           Package         TO-252-5, DPak (4 Leads + Tab), TO-252AD           Series         miniPROFET?           Switch Type         General Purpose           Number of Outputs         1           Ratio - Input:Output         1:1           Output Configuration         High Side           Output Type         N-Channel           Interface         On/Off           Voltage - Load         6 V ~ 52 V           Voltage - Supply (Vcc/Vdd)         Not Required           Current - Output (Max)         1.8A           Rds On (Typ)         150 mOhm           Input Type         Non-Inverting           Features         Auto Restart           Fault Protection         Current Limiting (Fixed), Over Temperature, Over Voltage           Operating Temperature         -40°C ~ 150°C (TJ)           Package / Case         TO-252-5, DPak (4 Leads + Tab), TO-252AD           Supplier Device Package         PG-TO252-5 | -                          |  |
|--|----------------------------|--|
| Category         Integrated Circuits (ICs)           PMIC - Power Distribution Switches, Load Drivers           Package         TO-252-5, DPak (4 Leads + Tab), TO-252AD           Series         miniPROFET?           Switch Type         General Purpose           Number of Outputs         1           Ratio - Input:Output         1:1           Output Configuration         High Side           Output Type         N-Channel           Interface         On/Off           Voltage - Load         6 V ~ 52 V           Voltage - Supply (Vcc/Vdd)         Not Required           Current - Output (Max)         1.8A           Rds On (Typ)         150 mOhm           Input Type         Non-Inverting           Features         Auto Restart           Features         Auto Restart           Fault Protection         Current Limiting (Fixed), Over Temperature, Over Voltage           Operating Temperature         -40°C ~ 150°C (TJ)           Package / Case         TO-252-5, DPak (4 Leads + Tab), TO-252AD           Supplier Device Package         PG-TO252-5  | Manufacturer Part Number   | BTS452TT   |
| Package TO-252-5, DPak (4 Leads + Tab), TO-252AD  Series miniPROFET?  Switch Type General Purpose  Number of Outputs 1:1  Ratio - Input:Output 1:1  Output Configuration High Side  Output Type N-Channel  Interface On/Off  Voltage - Load 6 V ~ 52 V  Voltage - Supply (Vcc/Vdd) Not Required  Current - Output (Max) 1:8A  Rds On (Typ) 150 mOhm  Input Type Non-Inverting  Features Auto Restart  Fault Protection Current Limiting (Fixed), Over Temperature, Over Voltage  Operating Temperature -40°C ~ 150°C (TJ)  Package / Case TO-252-5, DPak (4 Leads + Tab), TO-252AD  Supplier Device Package  | Manufacturer               | Infineon Technologies                                    |
| PackageTO-252-5, DPak (4 Leads + Tab), TO-252ADSeriesminiPROFET?Switch TypeGeneral PurposeNumber of Outputs1Ratio - Input:Output1:1Output ConfigurationHigh SideOutput TypeN-ChannelInterfaceOn/OffVoltage - Load6 V ~ 52 VVoltage - Supply (Vcc/Vdd)Not RequiredCurrent - Output (Max)1.8ARds On (Typ)150 mOhmInput TypeNon-InvertingFeaturesAuto RestartFault ProtectionCurrent Limiting (Fixed), Over Temperature, Over VoltageOperating Temperature-40°C ~ 150°C (TJ)Package / CaseTO-252-5, DPak (4 Leads + Tab), TO-252ADSupplier Device PackagePG-TO252-5   | Category                   | Integrated Circuits (ICs)                                |
| Series         miniPROFET?           Switch Type         General Purpose           Number of Outputs         1           Ratio - Input:Output         1:1           Output Configuration         High Side           Output Type         N-Channel           Interface         On/Off           Voltage - Load         6 V ~ 52 V           Voltage - Supply (Vcc/Vdd)         Not Required           Current - Output (Max)         1.8A           Rds On (Typ)         150 mOhm           Input Type         Non-Inverting           Features         Auto Restart           Fault Protection         Current Limiting (Fixed), Over Temperature, Over Voltage           Operating Temperature         -40°C ~ 150°C (TJ)           Package / Case         TO-252-5, DPak (4 Leads + Tab), TO-252AD           Supplier Device Package         PG-TO252-5   |                            | PMIC - Power Distribution Switches, Load Drivers         |
| Switch TypeGeneral PurposeNumber of Outputs1Ratio - Input:Output1:1Output ConfigurationHigh SideOutput TypeN-ChannelInterfaceOn/OffVoltage - Load6 V ~ 52 VVoltage - Supply (Vcc/Vdd)Not RequiredCurrent - Output (Max)1.8ARds On (Typ)150 mOhmInput TypeNon-InvertingFeaturesAuto RestartFault ProtectionCurrent Limiting (Fixed), Over Temperature, Over VoltageOperating Temperature-40°C ~ 150°C (TJ)Package / CaseTO-252-5, DPak (4 Leads + Tab), TO-252ADSupplier Device PackagePG-TO252-5   | Package                    | TO-252-5, DPak (4 Leads + Tab), TO-252AD                 |
| Number of Outputs  Ratio - Input:Output  1:1  Output Configuration  High Side  Output Type  N-Channel  Interface  On/Off  Voltage - Load  6 V ~ 52 V  Voltage - Supply (Vcc/Vdd)  Not Required  Current - Output (Max)  1.8A  Rds On (Typ)  150 mOhm  Input Type  Non-Inverting  Features  Auto Restart  Fault Protection  Current Limiting (Fixed), Over Temperature, Over Voltage  Operating Temperature  -40°C ~ 150°C (TJ)  Package / Case  TO-252-5, DPak (4 Leads + Tab), TO-252AD  Supplier Device Package  | Series                     | miniPROFET?  |
| Ratio - Input:Output1:1Output ConfigurationHigh SideOutput TypeN-ChannelInterfaceOn/OffVoltage - Load6 V ~ 52 VVoltage - Supply (Vcc/Vdd)Not RequiredCurrent - Output (Max)1.8ARds On (Typ)150 mOhmInput TypeNon-InvertingFeaturesAuto RestartFault ProtectionCurrent Limiting (Fixed), Over Temperature, Over VoltageOperating Temperature-40°C ~ 150°C (TJ)Package / CaseTO-252-5, DPak (4 Leads + Tab), TO-252ADSupplier Device PackagePG-TO252-5   | Switch Type                | General Purpose  |
| Output Configuration  High Side  Output Type  N-Channel  Interface  On/Off  Voltage - Load  6 V ~ 52 V  Voltage - Supply (Vcc/Vdd)  Not Required  Current - Output (Max)  1.8A  Rds On (Typ)  150 mOhm  Input Type  Non-Inverting  Features  Auto Restart  Fault Protection  Current Limiting (Fixed), Over Temperature, Over Voltage  Operating Temperature  -40°C ~ 150°C (TJ)  Package / Case  TO-252-5, DPak (4 Leads + Tab), TO-252AD  Supplier Device Package  PG-TO252-5  | Number of Outputs          | 1  |
| Output TypeN-ChannelInterfaceOn/OffVoltage - Load6 V ~ 52 VVoltage - Supply (Vcc/Vdd)Not RequiredCurrent - Output (Max)1.8ARds On (Typ)150 mOhmInput TypeNon-InvertingFeaturesAuto RestartFault ProtectionCurrent Limiting (Fixed), Over Temperature, Over VoltageOperating Temperature-40°C ~ 150°C (TJ)Package / CaseTO-252-5, DPak (4 Leads + Tab), TO-252ADSupplier Device PackagePG-TO252-5   | Ratio - Input:Output       | 1:1  |
| Interface On/Off  Voltage - Load 6 V ~ 52 V  Voltage - Supply (Vcc/Vdd) Not Required  Current - Output (Max) 1.8A  Rds On (Typ) 150 mOhm  Input Type Non-Inverting  Features Auto Restart  Fault Protection Current Limiting (Fixed), Over Temperature, Over Voltage  Operating Temperature -40°C ~ 150°C (TJ)  Package / Case TO-252-5, DPak (4 Leads + Tab), TO-252AD  Supplier Device Package PG-TO252-5  | Output Configuration       | High Side  |
| Voltage - Load 6 V ~ 52 V  Voltage - Supply (Vcc/Vdd) Not Required  Current - Output (Max) 1.8A  Rds On (Typ) 150 mOhm  Input Type Non-Inverting Features Auto Restart  Fault Protection Current Limiting (Fixed), Over Temperature, Over Voltage  Operating Temperature -40°C ~ 150°C (TJ)  Package / Case TO-252-5, DPak (4 Leads + Tab), TO-252AD  Supplier Device Package PG-TO252-5   | Output Type                | N-Channel  |
| Voltage - Supply (Vcc/Vdd)  Current - Output (Max)  1.8A  Rds On (Typ)  150 mOhm  Input Type  Non-Inverting  Features  Auto Restart  Fault Protection  Current Limiting (Fixed), Over Temperature, Over Voltage  Operating Temperature  -40°C ~ 150°C (TJ)  Package / Case  TO-252-5, DPak (4 Leads + Tab), TO-252AD  Supplier Device Package  | Interface                  | On/Off   |
| Current - Output (Max)  Rds On (Typ)  150 mOhm  Input Type  Non-Inverting  Features  Auto Restart  Fault Protection  Current Limiting (Fixed), Over Temperature, Over Voltage  Operating Temperature  -40°C ~ 150°C (TJ)  Package / Case  TO-252-5, DPak (4 Leads + Tab), TO-252AD  Supplier Device Package  | Voltage - Load             | 6 V ~ 52 V   |
| Rds On (Typ)  Input Type  Non-Inverting  Features  Auto Restart  Current Limiting (Fixed), Over Temperature, Over Voltage  Operating Temperature  -40°C ~ 150°C (TJ)  Package / Case  TO-252-5, DPak (4 Leads + Tab), TO-252AD  Supplier Device Package  PG-TO252-5  | Voltage - Supply (Vcc/Vdd) | Not Required   |
| Input Type Non-Inverting  Features Auto Restart  Fault Protection Current Limiting (Fixed), Over Temperature, Over Voltage  Operating Temperature -40°C ~ 150°C (TJ)  Package / Case TO-252-5, DPak (4 Leads + Tab), TO-252AD  Supplier Device Package PG-TO252-5  | Current - Output (Max)     | 1.8A   |
| Features Auto Restart  Fault Protection Current Limiting (Fixed), Over Temperature, Over Voltage  Operating Temperature -40°C ~ 150°C (TJ)  Package / Case TO-252-5, DPak (4 Leads + Tab), TO-252AD  Supplier Device Package PG-TO252-5  | Rds On (Typ)               | 150 mOhm   |
| Fault Protection  Current Limiting (Fixed), Over Temperature, Over Voltage  -40°C ~ 150°C (TJ)  Package / Case  TO-252-5, DPak (4 Leads + Tab), TO-252AD  Supplier Device Package  PG-TO252-5  | Input Type                 | Non-Inverting  |
| Operating Temperature -40°C ~ 150°C (TJ)  Package / Case TO-252-5, DPak (4 Leads + Tab), TO-252AD  Supplier Device Package PG-TO252-5  | Features                   | Auto Restart   |
| Package / Case TO-252-5, DPak (4 Leads + Tab), TO-252AD Supplier Device Package PG-TO252-5   | Fault Protection           | Current Limiting (Fixed), Over Temperature, Over Voltage |
| Supplier Device Package PG-TO252-5   | Operating Temperature      | -40°C ~ 150°C (TJ)                                       |
|  | Package / Case             | TO-252-5, DPak (4 Leads + Tab), TO-252AD                 |
| Report errors?   | Supplier Device Package    | PG-TO252-5   |
|  |                            | Report errors?   |

### **BTS452TT 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.

## **BTS452TT Payment Methods**



















### **BTS452TT Shipping Methods**













If you have any question about BTS452TT, please do not hesitate to contact us!

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