

# SFH608-3

## SFH608-3 Information

| Heisener.com       | Part Number  | SFH608-3  |
|--------------------|--------------|---|
|                    | Manufacturer | Vishay Semiconductor Opto Division                                  |
|                    | Category     | Isolators<br>Optoisolators - Transistor, Photovoltaic Output        |
|                    | Description  | OPTOISO 5.3KV TRANS W/BASE 6DIP                                     |
|                    | Package      | 6-DIP (0.300", 7.62mm)  |
|                    |              | For the pricing/inventory/lead time, please contact                 |
| For Reference Only |              | us  |
|                    |              | Website: https://www.heisener.com<br>E-mail: salesdept@heisener.com |

## **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.



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## SFH608-3 Specifications

| ManufacturerVishay Semiconductor Opto DivisionGategoryIsolatorsOptoisolators - Transistor, Photovoltaic OutputPackage6-DIP (0.300°, 7.62mm)Series-Number of Channels1Voltage - Isolation5300VrmsCurrent Transfer Ratio (Min)100% @ ImACurrent Transfer Ratio (Max)200% @ ImACurrent Transfer Ratio (Max)200% @ ImATurn On / Turn Off Time (Typ)8µs, 7.5µsRise / Fall Time (Typ)5µs, 7µsOutput TypeDCOutput Type55VCurrent - Output / Channel50mAVoltage - Forward (Vf) (Typ)1.1VCurrent - DC Forward (If) (Max)50mAVoe Saturation (Max)400mVOperating Temperature-55°C ~ 100°CMounting TypeThrough HolePackage / Case6-DIP (0.300°, 7.62mm)   |                                 |   |
|---|---------------------------------|---|
| CategoryIsolarosOptoisolators - Transistor, Photovoltaic OutputPackage6-DIP (0.300", 7.62mm)Series-Number of Channels1Voltage - Isolation5300VrmsCurrent Transfer Ratio (Min)100% @ ImACurrent Transfer Ratio (Max)200% @ ImACurrent Transfer Ratio (Max)200% @ ImATurn On / Turn Off Time (Typ)8µs, 7.5µsRise / Fall Time (Typ)5µs, 7µsOutput TypeDCOutput Type55VCurrent - Output / Channel50mAVoltage - Forward (Vf) (Typ)1.1VCurrent - DC Forward (If) (Max)50mAVoltage Temperature-55°C ~ 100°CMounting TypeThrough HolePackage / Case6-DIP (0.300", 7.62mm)   | Manufacturer Part Number        | SFH608-3  |
| Optoisolators - Transistor, Photovoltaic OutputPackage6-DIP (0.300", 7.62mm)Series-Number of Channels1Voltage - Isolation5300VrmsCurrent Transfer Ratio (Min)100% @ 1mACurrent Transfer Ratio (Max)200% @ 1mATurn On / Turn Off Time (Typ)8µs, 7.5µsRise / Fall Time (Typ)5µs, 7µsOutput TypeDCOutput Type55VCurrent - Output / Channel50mAVoltage - Forward (Vf) (Typ)1.1VCurrent - DC Forward (If) (Max)50mAVole Saturation (Max)400mVOperating Temperature-55°C ~ 100°CMounting TypeThrough HolePackage / Case6-DIP (0.300", 7.62mm)Supplier Device Package6-DIP   | Manufacturer                    | Vishay Semiconductor Opto Division              |
| Package6-DIP (0.300", 7.62mm)Series-Number of Channels1Voltage - Isolation5300VrmsCurrent Transfer Ratio (Min)100% @ 1mACurrent Transfer Ratio (Max)200% @ 1mATurn On / Turn Off Time (Typ)8µs, 7.5µsRise / Fall Time (Typ)5µs, 7µsOutput TypeDCOutput Type55VCurrent - Output / Channel50mAVoltage - Forward (Vf) (Typ)1.1VCurrent - DC Forward (If) (Max)50mAVoltage - Forward (Vf) (Max)50mACurrent - DC Forward (If) (Max)50mAVoltage - Forward (Vf) (Typ)1.1VCurrent - DC Forward (If) (Max)50mAVe Saturation (Max)400mVOperating Temperature-55°C ~ 100°CMounting TypeThrough HolePackage / Case6-DIP (0.300", 7.62mm)Supplier Device Package6-DIP  | Category                        | Isolators                                       |
| Series-Number of Channels1Voltage - Isolation5300VrmsCurrent Transfer Ratio (Min)100% @ ImACurrent Transfer Ratio (Max)200% @ ImATurn On / Turn Off Time (Typ)8µs, 7.5µsRise / Fall Time (Typ)5µs, 7µsInput TypeDCOutput TypeTransistor with BaseVoltage - Output (Max)55VCurrent - Output / Channel50mAVoltage - Forward (If) (Max)50mAVoltage - Forward (If) (Max)50mAOupparting Temperature55°C ~ 100°CMounting TypeThrough HolePackage / Case6-DIP (0.300", 7.62mm)Supplier Device Package6-DIP   |                                 | Optoisolators - Transistor, Photovoltaic Output |
| Number of Channels1Voltage - Isolation5300VrmsCurrent Transfer Ratio (Min)100% @ 1mACurrent Transfer Ratio (Max)200% @ 1mATurn On / Turn Off Time (Typ)8µs, 7.5µsRise / Fall Time (Typ)5µs, 7µsInput TypeDCOutput TypeTransistor with BaseVoltage - Output (Max)55VCurrent - Output / Channel50mAVoltage - Forward (Vf) (Typ)1.1VCurrent - DC Forward (If) (Max)50mAVoltage - Forward (If) (Max)50mAOupput Type-55°C ~ 100°CMounting TypeThrough HolePackage / Case6-DIP (0.300", 7.62mm)   | Package                         | 6-DIP (0.300", 7.62mm)                          |
| Voltage - Isolation     5300Vrms       Current Transfer Ratio (Min)     100% @ 1mA       Current Transfer Ratio (Max)     200% @ 1mA       Turn On / Turn Off Time (Typ)     8µs, 7.5µs       Rise / Fall Time (Typ)     5µs, 7µs       Input Type     DC       Output Type     Transistor with Base       Voltage - Output (Max)     55V       Current - Output / Channel     50mA       Voltage - Forward (Vf) (Typ)     1.1V       Current - DC Forward (If) (Max)     50mA       Vole Saturation (Max)     400mV       Operating Temperature     -55°C ~ 100°C       Mounting Type     Through Hole       Package / Case     6-DIP (0.300", 7.62mm)   | Series                          | -   |
| Number of the second | Number of Channels              | 1   |
| Current Transfer Ratio (Max)200% @ 1mATurn On / Turn Off Time (Typ)8µs, 7.5µsRise / Fall Time (Typ)5µs, 7µsInput TypeDCOutput TypeTransistor with BaseVoltage - Output (Max)55VCurrent - Output / Channel50mAVoltage - Forward (Vf) (Typ)1.1VCurrent - DC Forward (If) (Max)50mAVe Saturation (Max)400mVOperating Temperature-55°C ~ 100°CMounting TypeFhrough HolePackage / Case6-DIP (0.300", 7.62mm)   | Voltage - Isolation             | 5300Vrms  |
| Turn On / Turn Off Time (Typ)8µs, 7.5µsRise / Fall Time (Typ)5µs, 7µsInput TypeDCOutput TypeTransistor with BaseVoltage - Output (Max)55VCurrent - Output / Channel50mAVoltage - Forward (Vf) (Typ)1.1VCurrent - DC Forward (If) (Max)50mAVoe Saturation (Max)400mVOperating Temperature-55°C ~ 100°CMounting TypeThrough HolePackage / Case6-DIP (0.300", 7.62mm)Supplier Device Package6-DIP  | Current Transfer Ratio (Min)    | 100% @ 1mA                                      |
| Rise / Fall Time (Typ)5µs, 7µsInput TypeDCOutput TypeTransistor with BaseVoltage - Output (Max)55VCurrent - Output / Channel50mAVoltage - Forward (Vf) (Typ)1.1VCurrent - DC Forward (If) (Max)50mAVec Saturation (Max)400mVOperating Temperature-55°C ~ 100°CMounting TypeThrough HolePackage / Case6-DIP (0.300", 7.62mm)Supplier Device Package6-DIP   | Current Transfer Ratio (Max)    | 200% @ 1mA                                      |
| Input TypeDCOutput TypeTransistor with BaseVoltage - Output (Max)55VCurrent - Output / Channel50mAVoltage - Forward (Vf) (Typ)1.1VCurrent - DC Forward (If) (Max)50mAVce Saturation (Max)400mVOperating Temperature-55°C ~ 100°CMounting TypeThrough HolePackage / Case6-DIP (0.300", 7.62mm)   | Turn On / Turn Off Time (Typ)   | 8µs, 7.5µs                                      |
| A matrixTransistor with BaseOutput TypeTransistor with BaseVoltage - Output (Max)55VCurrent - Output / Channel50mAVoltage - Forward (Vf) (Typ)1.1VCurrent - DC Forward (If) (Max)50mAVce Saturation (Max)400mVOperating Temperature-55°C ~ 100°CMounting TypeThrough HolePackage / Case6-DIP (0.300", 7.62mm)Supplier Device Package6-DIP   | Rise / Fall Time (Typ)          | 5μs, 7μs  |
| Voltage - Output (Max)55VCurrent - Output / Channel50mAVoltage - Forward (Vf) (Typ)1.1VCurrent - DC Forward (If) (Max)50mAVce Saturation (Max)400mVOperating Temperature-55°C ~ 100°CMounting TypeThrough HolePackage / Case6-DIP (0.300", 7.62mm)Supplier Device Package6-DIP  | Input Type                      | DC  |
| Current - Output / Channel50mAVoltage - Forward (Vf) (Typ)1.1VCurrent - DC Forward (If) (Max)50mAVce Saturation (Max)400mVOperating Temperature-55°C ~ 100°CMounting TypeThrough HolePackage / Case6-DIP (0.300", 7.62mm)Supplier Device Package6-DIP   | Output Type                     | Transistor with Base                            |
| Voltage - Forward (Vf) (Typ)1.1VCurrent - DC Forward (If) (Max)50mAVce Saturation (Max)400mVOperating Temperature-55°C ~ 100°CMounting TypeThrough HolePackage / Case6-DIP (0.300", 7.62mm)Supplier Device Package6-DIP   | Voltage - Output (Max)          | 55V   |
| Current - DC Forward (If) (Max)50mAVce Saturation (Max)400mVOperating Temperature-55°C ~ 100°CMounting TypeThrough HolePackage / Case6-DIP (0.300", 7.62mm)Supplier Device Package6-DIP   | Current - Output / Channel      | 50mA  |
| Vce Saturation (Max)400mVOperating Temperature-55°C ~ 100°CMounting TypeThrough HolePackage / Case6-DIP (0.300", 7.62mm)Supplier Device Package6-DIP  | Voltage - Forward (Vf) (Typ)    | 1.1V  |
| Operating Temperature-55°C ~ 100°CMounting TypeThrough HolePackage / Case6-DIP (0.300", 7.62mm)Supplier Device Package6-DIP   | Current - DC Forward (If) (Max) | 50mA  |
| Mounting TypeThrough HolePackage / Case6-DIP (0.300", 7.62mm)Supplier Device Package6-DIP   | Vce Saturation (Max)            | 400mV   |
| Package / Case6-DIP (0.300", 7.62mm)Supplier Device Package6-DIP  | Operating Temperature           | -55°C ~ 100°C                                   |
| Supplier Device Package 6-DIP   | Mounting Type                   | Through Hole                                    |
|   | Package / Case                  | 6-DIP (0.300", 7.62mm)                          |
| Report errors?  | Supplier Device Package         | 6-DIP   |
|   |                                 | Report errors?                                  |

### SFH608-3 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.



If you have any question about SFH608-3, please do not hesitate to contact us! Website: https://www.heisener.com E-mail: salesdept@heisener.com