



#### STPS1045BTRL Information



For Reference Only

Part Number STPS1045BTRL

Manufacturer Vishay Semiconductor Diodes Division

Category Discrete Semiconductor Products

Diodes - Rectifiers - Single

**Description**DIODE SCHOTTKY 45V 10A DPAK**Package**TO-252-3, DPak (2 Leads + Tab), SC-63

For the pricing/inventory/lead time, please contact

us

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



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## **STPS1045BTRL Specifications**

Manufacturer Part NumberSTPS1045BTRLManufacturerVishay Semiconductor Diodes DivisionCategoryDiscrete Semiconductor ProductsDiodes - Rectifiers - SinglePackageTO-252-3, DPak (2 Leads + Tab), SC-63Series-Diode TypeSchottkyVoltage - DC Reverse (Vr) (Max)45VCurrent - Average Rectified (Io)10AVoltage - Forward (Vf) (Max) @ If630mV @ 10ASpeedFast Recovery =< 500ns, > 200mA (Io)Reverse Recovery Time (trr)-Current - Reverse Leakage @ Vr200µA @ 45VCapacitance @ Vr, F760pF @ 5V, 1MHzMounting TypeSurface MountPackage / CaseTO-252-3, DPak (2 Leads + Tab), SC-63Supplier Device PackageD-PAK (TO-252AA)Operating Temperature - Junction-40°C ~ 175°C		
Category  Discrete Semiconductor Products  Diodes - Rectifiers - Single  Package  TO-252-3, DPak (2 Leads + Tab), SC-63  Series  - Diode Type  Schottky  Voltage - DC Reverse (Vr) (Max)  45V  Current - Average Rectified (Io)  Voltage - Forward (Vf) (Max) @ If  Speed  Fast Recovery =< 500ns, > 200mA (Io)  Reverse Recovery Time (trr)  - Current - Reverse Leakage @ Vr  Capacitance @ Vr, F  Mounting Type  Surface Mount  Package / Case  TO-252-3, DPak (2 Leads + Tab), SC-63  Supplier Device Package  D-PAK (TO-252AA)  Operating Temperature - Junction	Manufacturer Part Number	STPS1045BTRL
Diodes - Rectifiers - Single  Package TO-252-3, DPak (2 Leads + Tab), SC-63  Series - Diode Type Schottky Voltage - DC Reverse (Vr) (Max) 45V Current - Average Rectified (Io) 10A Voltage - Forward (Vf) (Max) @ If Speed Fast Recovery =< 500ns, > 200mA (Io)  Reverse Recovery Time (trr) - Current - Reverse Leakage @ Vr 200µA @ 45V Capacitance @ Vr, F 760pF @ 5V, 1MHz Mounting Type Surface Mount Package / Case TO-252-3, DPak (2 Leads + Tab), SC-63 Supplier Device Package D-PAK (TO-252AA) Operating Temperature - Junction  Diodes - Rectifiers - Single TO-252-3, DPak (2 Leads + Tab), SC-63	Manufacturer	Vishay Semiconductor Diodes Division
Package  TO-252-3, DPak (2 Leads + Tab), SC-63  Series  - Diode Type  Schottky  Voltage - DC Reverse (Vr) (Max)  45V  Current - Average Rectified (Io)  Voltage - Forward (Vf) (Max) @ If  630mV @ 10A  Speed  Fast Recovery =< 500ns, > 200mA (Io)  Reverse Recovery Time (trr)  - Current - Reverse Leakage @ Vr  Capacitance @ Vr, F  760pF @ 5V, 1MHz  Mounting Type  Surface Mount  Package / Case  TO-252-3, DPak (2 Leads + Tab), SC-63  Supplier Device Package  D-PAK (TO-252AA)  Operating Temperature - Junction	Category	Discrete Semiconductor Products
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Diode Type  Schottky  Voltage - DC Reverse (Vr) (Max)  45V  Current - Average Rectified (Io)  10A  Voltage - Forward (Vf) (Max) @ If  Speed  Fast Recovery =< 500ns, > 200mA (Io)  Reverse Recovery Time (trr)  - Current - Reverse Leakage @ Vr  Capacitance @ Vr, F  760pF @ 5V, 1MHz  Mounting Type  Surface Mount  Package / Case  TO-252-3, DPak (2 Leads + Tab), SC-63  Supplier Device Package  D-PAK (TO-252AA)  Operating Temperature - Junction  -40°C ~ 175°C	Package	TO-252-3, DPak (2 Leads + Tab), SC-63
Voltage - DC Reverse (Vr) (Max)  Current - Average Rectified (Io)  Voltage - Forward (Vf) (Max) @ If  Speed  Fast Recovery =< 500ns, > 200mA (Io)  Reverse Recovery Time (trr)  -  Current - Reverse Leakage @ Vr  Capacitance @ Vr, F  Mounting Type  Surface Mount  Package / Case  TO-252-3, DPak (2 Leads + Tab), SC-63  Supplier Device Package  D-PAK (TO-252AA)  Operating Temperature - Junction  45V  10A  45V  200µA @ 45V  760pF @ 5V, 1MHz  Mount  TO-252-3, DPak (2 Leads + Tab), SC-63  Supplier Device Package  D-PAK (TO-252AA)	Series	-
Current - Average Rectified (Io)  Voltage - Forward (Vf) (Max) @ If  Speed  Fast Recovery = < 500ns, > 200mA (Io)  Reverse Recovery Time (trr)  - Current - Reverse Leakage @ Vr  Capacitance @ Vr, F  Mounting Type  Surface Mount  Package / Case  TO-252-3, DPak (2 Leads + Tab), SC-63  Supplier Device Package  Operating Temperature - Junction  10A  630mV @ 10A  630mV @ 10A  630mV @ 10A  640°C ~ 175°C	Diode Type	Schottky
Voltage - Forward (Vf) (Max) @ If  Speed  Fast Recovery = < 500ns, > 200mA (Io)  Reverse Recovery Time (trr)  - Current - Reverse Leakage @ Vr  Capacitance @ Vr, F  760pF @ 5V, 1MHz  Mounting Type  Surface Mount  Package / Case  TO-252-3, DPak (2 Leads + Tab), SC-63  Supplier Device Package  D-PAK (TO-252AA)  Operating Temperature - Junction	Voltage - DC Reverse (Vr) (Max)	45V
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Mounting Type Surface Mount  Package / Case TO-252-3, DPak (2 Leads + Tab), SC-63  Supplier Device Package D-PAK (TO-252AA)  Operating Temperature - Junction -40°C ~ 175°C	Current - Reverse Leakage @ Vr	200μA @ 45V
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Supplier Device Package D-PAK (TO-252AA)  Operating Temperature - Junction $-40^{\circ}\text{C} \sim 175^{\circ}\text{C}$	Mounting Type	Surface Mount
Operating Temperature - Junction $-40^{\circ}\text{C} \sim 175^{\circ}\text{C}$	Package / Case	TO-252-3, DPak (2 Leads + Tab), SC-63
	Supplier Device Package	D-PAK (TO-252AA)
Report errors?	Operating Temperature - Junction	-40°C ~ 175°C
		Report errors?

#### **STPS1045BTRL 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.

### **STPS1045BTRL Payment Methods**



















# **STPS1045BTRL Shipping Methods**













If you have any question about STPS1045BTRL, please do not hesitate to contact us!

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