

# The Surge Advantage

Trench Schottky Diodes



# Trench Schottky Diodes

Product availability should never be a question, particularly when you have a production schedule to keep. This is the case for many diodes available through Surge Components, including Trench Schottky Diodes. These diodes offer a reduction in forward voltage drop ( $V_F$ ) and a significant improvement in reverse leakage current compared with a comparable conventional planar device. They also provide a factor-of-two improvement in reverse energy absorption capability, while maintaining equivalent switching characteristics. That means the new Trench Schottky Diodes can now be rated at a higher maximum junction temperature ( $T_{jmax}$ ) of 150°C.

**Reduced Forward Voltage Drop**  
**Significant Improvement in Reverse Leakage Current**  
**2X Improvement in Reverse Energy Absorption**  
**Rated at Maximum Junction Temperature of 150°C**  
**Ideal as Rectifiers, Freewheel Diodes or Blocking Diodes in DC/DC Converters and AC/DC Adapters.**



**SURGE**

## Surge Components Trench Schottky Offering

## Recommended Replacements For:

Surge Part Number	Forward Current	Reverse Voltage	Forward Voltage	Package	Diodes Inc	On Semi	Vishay
SHTS5U100	5	100	0.46V @ 2.5A	TO-277A	SDT5H100LP5	---	---
SHTS5U100	5	100	0.46V @ 2.5A	TO-277A	SDT5H100P5	---	---
SHTS5V100	5	100	0.4V @ 2.5A	TO-277A	SDT5100LP5	---	---
SHTRF10L100CT	10	100	0.55V @ 2.5A	ITO-220AB	SDT10A100CT	---	MBR10100CT
SHTS10L100	10	100	0.51V @ 5A	TO-277A	SDT8A100P5	FSV8100V	SS8PH10HM3/86A
SHTS10150	10	150	0.57V @ 5A	TO-277A	SDT8A120P5Q	FSV8100V	SS8PH10HM3/86A
SHTS12L120	12	120	0.52V @ 6A	TO-277A	SDT12A120P5Q	FSV12120V	---
SHTS15150	15	150	0.59V @ 7.5A	TO-277A	SDT15150P5	FSV15150V	---
SHTRF20100CT	20	100	0.57V @ 5A	ITO-220AB	SDT20B100CT	NTST20100CTG	V20100C
SHTRF20100CT	20	100	0.57V @ 5A	ITO-220AB	SDT20100CT	---	V20100C
SHTRF20L100CT	20	100	0.5V @ 5A	ITO-220AB	SDT20A100CT	NRTSV20H100CT	V20100C
SHTS20L100	20	100	0.49V @ 10A	TO-277A	SDT20B100D1	---	V20PWM10
SHTRF20120CT	20	120	0.7 @ 5A	ITO-220AB	SDT20A120CT	NTSV20H120CT	V20120C
SHTRF20120CT	20	120	0.7 @ 5A	ITO-220AB	SDT20120CT	---	V20120C
SHTRF20L120CT	20	120	0.54V @ 5A	ITO-220AB	SDT20120VCT	---	V20120C
SHTS20150	20	150	0.56V @ 10A	TO-277A	SDT12A120P5	FSV12120V	---
SHTRF30100CT	30	100	0.57V @ 7.5A	ITO-220AB	SDT30A100CT	NTST30100CTG	V30100C
SHTRF30100CT	30	100	0.57V @ 7.5A	ITO-220AB	SDT30100CT	NTST30U100CT	V30100C
SHTRF30L100CT	30	100	0.53V @ 7.5A	ITO-220AB	SDT30100VCT	NTST30U100CT	V30100C
SHTRF30120CT	30	120	0.53V @ 7.5A	ITO-220AB	SDT30A120CT	NTST30120CT	V30120C
SHTRF30120CT	30	120	0.53V @ 7.5A	ITO-220AB	SDT30120CT	NTST30120CT	V30120C
SHTS30120	30	120	0.59V @ 15A	TO-277A	SDT30B100D1	---	---
SHTRF40100CT	40	100	0.57V @ 10A	ITO-220AB	SDT40A100CT	NRTST40H100CT	V40100C
SHTRF40U100CT	40	100	0.45V @ 10A	ITO-220AB	SDT40H100CT	NRTST40H100CT	V40100C
SHTRF40V100CT	40	100	0.41V @ 10A	ITO-220AB	SDT40A100VCT	NRTST40H100CT	V40100C
SHTRF40100CT	40	110	0.57V @ 10A	ITO-220AB	SDT40100CT	NTST40100CTG	V40100C
SHTRF40L120CT	40	120	0.54V @ 10A	ITO-220AB	SDT40A120CT	NTST40H120ECTG	V40120C
SHTRF40L120CT	40	120	0.54V @ 10A	ITO-220AB	SDT40H120CT	NTST40H120ECTG	V40120C

# Contact Us For Help

## **Surge Components**

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