

Fast / Super-Fast / Ultra-Fast **Recovery Rectifiers**

- Diffused junction
- Fast switching for high efficiency (35nS-500nS)
- High current capability and low forward voltage drop
- Low reverse leakage current

Bridge Rectifiers

- Average rectified current up to 50 A
- Glass and silicon passivation
- In-line, square, low-profile and SMD packages
- Low leakage and low forward voltage
- Schottkys available 1 A − 3 A

TVS Diodes and Arrays

- Unidirectional and bidirectional polarities
- Multi line data protection
- Fast response time with excellent clamping capability
- Peak power ratings from 60 W − 1,500 W
- Low incremental surge resistance







Zener Diodes, **Small Signal Products**

- Fast switching speed
- Surface mount and thru-hole
- High reliability
- Voltage regulation and small footprint

Schottky Diodes / Rectifiers

- High efficiency, low power loss
- 0.1 A 30 A current capability
- Low forward voltage drop
- Fast switching

Switching Diodes

- Voltage ranges from 35 V − 250 V
- Fast switching speeds
- Low leakage current
- Small surface mount packages







Polymer ESD Diodes

- Optimal protection for high frequency, low voltage applications
- Extremely low capacitance
- Very low leakage current
- Fast response time
- Bidirectional ESD protection

High Voltage Diodes

- Voltage range 1,200 V 18,000 V
- High current capability
- High temperature rated packaging
- Low forward voltage drop
- Reverse power dissipation capability

Transistors

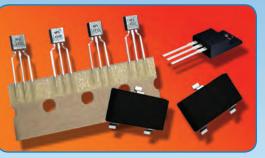
- Switching and general purpose
- NPN and PNP, 30 V 500 V range
- Fast switching, Low saturation voltages
- High reliability

MOSFETs (In Developemnt)

- N. P and dual channels
- Low RDS (on)
- MOSFET / Schottky combinations
- ESD protection MOSFETs









CAPACITORS

Electrolytic



Surface Mount (V-Chip)

- 4 V ~ 450 V
- .1 uF ~ 8.200 uF
- 3 mm dia. ~ 21 mm dia.
- 260° C reflow ready
- Up to 5,000 hours
- Wide temperture range (-55° C to 125° C)
- Largest production capacity in China

Low Impedance

- Up to 10,000 hours

• Low profile (5 mm and 7 mm height)

• 6.3 V ~ 450 V

- 2.2 μF ~ 18,000 μF
- Wide temperature range (-55° C to 125° C)
- Low-cost solution against Japanese brand

General Purpose

- 4 V ~ 500 V
- 1 μF ~ 33,000 μF
- Full product range
- Low leakage





Snap In / Screw Mount

- Up to 525 V
- Up to 750,000 μF
- 2.000 ~ 20.000 hours
- Custom specs available Power and inverter applications

Solid Organic Polymer (OP-CAP)

- 2.5 V ~ 50 V 6.8 µF ~ 3.500 µF
- Ulta-low ESRHigh ripple current • 260° C reflow ready
- Hybrid Polymer NEW





Metallized Polyester

- 50 V ~ 1.250 V DC .001 uF ~ 47 uF
- Plastic box type (radial)
- Epoxy coated type (radial) Stacked type (radial)
- Non-inductive



Metallized Polypropylene

- 100 V ~ 2,500 V DC .001 μ F ~ 47 μ F

Film

- Film / foil type Non-inductive
- Plastic box type (radial)
- Epoxy coated type (radial)
- Double-sided box type (AC rated)

Interference Suppressor

- 275 V ~ 760 V AC .001 μF ~ 50 μF
- X1 metalized polypropylene X2 metalized polypropylene
- Y2 metalized polypropylene Agency approvals

Power Films

- DC-link for PBC
- DC-link (dry type-plastic)
- DC-link (dry type-aluminum)
- Customized
 High voltage DC-link
- IGBT snubber

Axial Type

- 100 V ~ 1,250 V DC .01 uF ~ 15 uF
- Oval type
- Round type Longer useful life



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Thinking Beyond the Board

The dynamics of today's component supply chain are far more complex than ever before.

Nowhere is this more true than in the global industrial electronics market where purchasing, engineering and supply chain management come together to produce quality products and systems that improve the way we handle power on the board and beyond.

As a specialist in capacitors¹ and discrete semiconductors² since 1981, Surge Components is among an elite group of manufacturing and marketing organizations around the world that has the capability to provide in-depth technical support, guidance and direction, and to function as the direct link to our extensive selection of high-performance components.

1. TS16949 qualified. 2. AEC-Q101, AEC-Q200 qualified.





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