



transys



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POWER
SEMICONDUCTORS



About us

Transys Electronics Ltd is a privately owned semiconductor manufacturer. Our modern 5000 sq. ft factory is located in the heart of the West Midlands, UK. Founded in 1992, our product development has grown and we now have the technical capability of producing high volume semiconductor wafers assembled into various packages using our vacuum soldering process.



Technology

IGBT

Current I_c (A) 6 amp up to 3000 amp
 Voltage V_{ces} (A) Up to 4500 volts

Power Transistors

V_{ces} 15v up to 1700 V
 I_c Up to 60A

Small Signal Transistors

V_{ceo} Up to 120 V
 I_c Up to 1000mA

Schottky Diodes

Maximum Average Current I_O A up to 60 amps
 V_{RRM} up to 200 volts

Triac

Current I_T (RMS) 0.8amp up to 30 amps
 Voltage (V_{DRM}) Up to 800 volts

Rectifier Diodes

I_F (AV) 150mA up to 15,000 Amps
 V_{RRM} 2500 volts VF 0.60 volts @ 200 amps

Fast Recovery Rectifier Diodes

I_F (AV) 150mA up to 15,000 Amps
 V_{RRM} 1200 volts
 t_{rr} (ns) 15-500 ns

Mosfet

N Channel
 V_{DSS} (V) Up to 1700 volts
 I_D cont @ 25 Deg C Up to 75 amps
 $R_{DS(on)}$ Ohm Up to 80 ohm

P Channel

V_{DSS} (V) -50v to -600v
 I_D cont @ 25 Deg C -10A up to -170A
 $R_{DS(on)}$ Ohm 0.014 ohm up to 1.2 ohm

Silicon Controlled Rectifiers (SCR)

Current I_T (RMS) 0.8amp up to 500 amps
 Voltage (V_{DRM}) Up to 2000 volts

Telecom Thyristor Protector (Sidac)

Surge current rating Up to 100 amps
 V_{DRM} 58v up to 320V

Transient Voltage Suppressors (TVS)

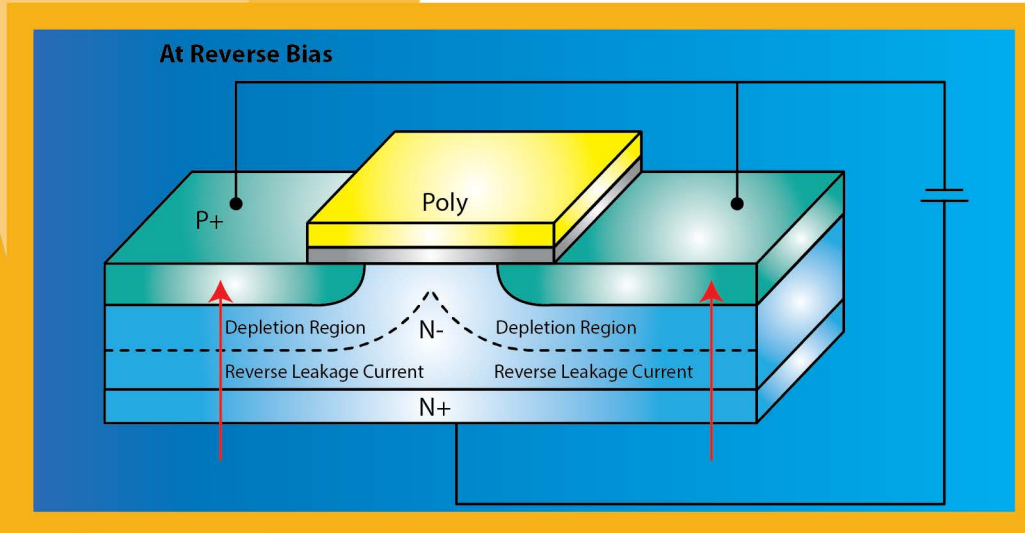
Power Ratings 500 watt up to 10,000 watt
 Voltage 6.8V up to 440 volts

Transiend TVS Diodes

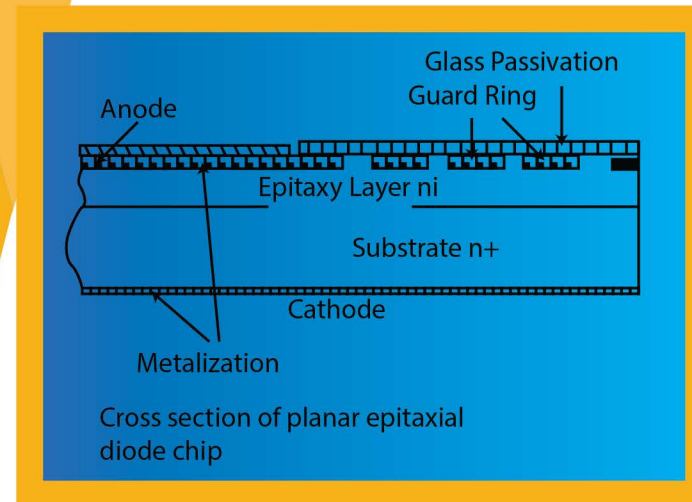
Current Rating 1000 amps up to 20,000 amps
 Voltage rating 16 volts up to 530 volts

4, 5, 6 & 8 Inch wafer
 Multiple metal systems available

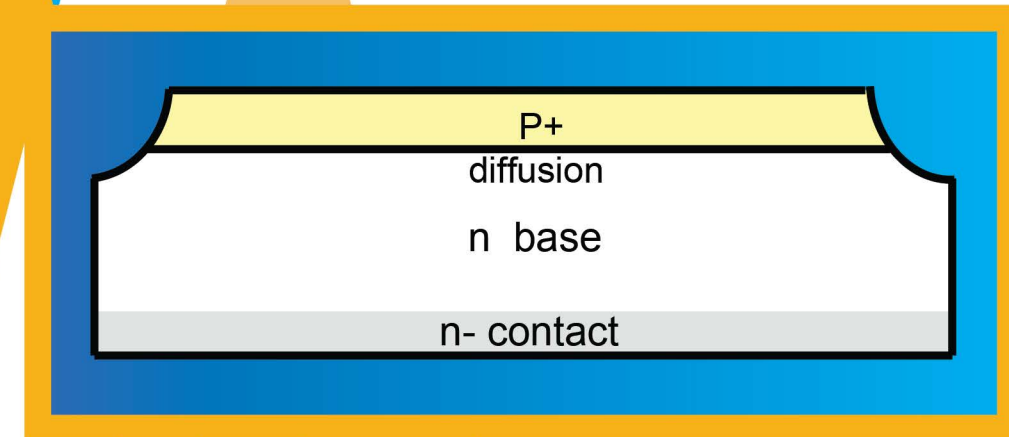
Low Forward Voltage Rectifier & Zener



Ultra Low VF Mosdiode
 VF typically 0.60 @ 200 amps



Super Low VF Epi
 VF typically 0.85 @ 200 amps



Low VF Mesa
 VF typically 0.95v @ 200 amps

ALL CHIPS ARE AVAILABLE INSIDE MODULES OR HERMETICALLY SEALED GLASS TO METAL PARTS