



transys



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Transys Electronics Ltd
3 Forge Mills Park
Station Road
Coleshill
Warwickshire
B46 1JH, UK
Telephone:-44 (0) 1675 437609
Email:-sales@transyselectronics.com

UK and Europe Distribution
Astute Electronics Ltd (Headquarters)
Astute House,
Rutherford Close,
Stevenage,
Hertfordshire,
SG1 2EF
United Kingdom
T: +44 (0) 1438 909 909
E: sales@astutegroup.com



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
VRRM up to 200 volts

Triac

Current I_T (RMS) 0.8amp up to 30 amps
Voltage (VDRM) Up to 800 volts

Rectifier Diodes

IF (AV) 150mA up to 15,000 Amps
VRRM 2500 volts VF 0.60 volts @ 200 amps

Fast Recovery Rectifier Diodes

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

Mosfet

N Channel
VDSS (V) Up to 1700 volts
ID cont @ 25 Deg C Up to 75 amps
RDS (on) Ohm Up to 80 ohm

P Channel

VDSS (V) -50v to -600v
ID cont @ 25 Deg C -10A up to -170A
RDS (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 (VDRM) Up to 2000 volts

Telecom Thyristor Protector (Sidac)

Surge current rating Up to 100 amps
VDRM 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

IGBT, Discrete & Modules

Package	Current Range	Voltage Range	Configurations available
TO-220	20 amps up to 100 amps	600 volts up to 3600 volts	Non-punch through (NPT), Punch through (PT)
TO-247	20 amps up to 150 amps	600 volts up to 3600 volts	Non-punch through (NPT), Punch through (PT)
TO-268	20 amps up to 100 amps	600 volts up to 3600 volts	Non-punch through (NPT), Punch through (PT)
TO-264	20 amps up to 100 amps	600 volts up to 3600 volts	Non-punch through (NPT), Punch through (PT)
SOIT-227	40 amps up to 150 amps	600 volts up to 3600 volts	Non-punch through (NPT), Punch through (PT)
IGBT1	10 amps up to 50 amps	600 volts up to 1200 volts	NPC with NTC, Six pack with NTC, PIM with NTC, Six pack with NTC, PIM with NTC.
IGBT2	15 amps up to 200 amps	600 volts up to 1200 volts	NPC with NTC, Six pack with NTC, PIM with NTC, T-NPC with NTC.
IGBT3	10 amps up to 150 amps	600 volts up to 1200 volts	Half Bridge with NTC, Six pack with NTC, PIM with NTC.
IGBT4	10 amps up to 80 amps	600 volts up to 1200 volts	Six pack with NTC, PIM with NTC, NPC with NTC, Chopper with NTC, Six pack with NTC, PIM with NTC, T-NPC with NTC, dual boost with NTC
IGBT5	10 amps up to 35 amps	600 volts up to 1200 volts	PIM with NTC, six pack with NTC, PIM with NTC.
IGBT6	150 amps up to 600 amps	600 volts up to 1700 volts	Half bridge with NTC, buck chopper with NTC, boost chopper with NTC, Half bridge with NTC, buck chopper with NTC, Boost Chopper with NTC, boost chopper with NTC.
IGBT7	10 amps up to 75 amps	600 volts up to 1700 volts	PIM with NTC, Six pack with NTC.
IGBT8	10 amps up to 50 amps	600 volts up to 1200 volts	PIM with NTC.
IGBT9	35 amps up to 200 amps	600 volts up to 1200 volts	Six pack with NTC, PIM with NTC, Six pack with NTC.
IGBT10	35 amps up to 150 amps	600 volts up to 1200 volts	PIM with NTC
IGBT11	40 amps up to 200 amps	600 volts up to 1700 volts	Half Bridge, buck chopper, boost chopper
IGBT12	100 amps up to 450 amps	600 volts up to 1700 volts	Half Bridge, buck chopper, boost chopper
IGBT13	50 amps up to 600 amps	600 volts up to 1700 volts	Full Bridge, Half Bridge.
IGBT14	600 amps up to 1400 amps	600 volts up to 1700 volts	Half bridge with NTC, T-NPC with NTC, Half bridge with NTC, Boost chopper with NTC, Buck chopper with NTC.
IGBT15	800 amps up to 2400 amps	1200 volts up to 3300 volts	Single.
IGBT16	2000 amps up to 3500 amps	1200 volts up to 3300 volts	Single
IGBT17	200 amps up to 400 amps	650 volts up to 1200 volts	Three phase bridge with NTC
IGBT18	200 amps up to 400 amps	650 volts up to 1200 volts	Three phase bridge with NTC
IGBT19	400 amps up to 800 amps	650 volts up to 1200 volts	Tri-pack with NTC
IGBT20	30 amps up to 200 amps	400 volts up to 1700 volts	Half Bridge
IGBT21	100 amps up to 600 amps	600 volts up to 1700 volts	Double Single
IGBT22	150 amps up to 600 amps	600 volts up to 1700 volts	Full Bridge, Half Bridge, Dual boost with NTC, NPC with NTC
IGBT23	10 amps up to 80 amps	600 volts up to 1200 volts	T-NPC with NTC
IGBT24	450 amps up to 1400 amps	650 volts up to 1700 volts	Dual boost with NTC



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