

Summary of common T0-92 and similar sized NPN transistors

Conducted by Slider2732

Test conditions -

'Walgreen' tower of approx 400 turns.

Slayer exciter circuit.

2 turn primary (adjustable height and used to ascertain best results from each transistor).

Adjustable pot of 250K size replaces resistor.

3.7V Nokia phone charger, 340mA rated maximum output.

All items static except transistor connection wires.

? denotes no found datasheet

The lightbulb is an energy saver, rated at 13W 200mA

Illumination of the lightbulb regards sections of the twirl lowly lit, rising to fuller brightness

Neon tests were conducted using a hand held dipole antenna

In datasheet searches, often '2S' preceeds the designation..such as 2SC1213 for a transistor physically marked as C1213

All transistors salvaged from used equipment - use only as a guide.

19C/66F ambient room temperature.

Key:

T - Transistor numbering as commonly appears upon the casing

Pin - Transistor connections left to right, looking at the flat front of a T0-92 case

CC - Collector Current

Notes - Observations made during testing. Brackets indicate stated grade tested

Strongest to weakest

T.....Pin.CC... Notes

D471 ECB 1A Strongest by 10% in all regards - case larger than T0-92

2N7000 SGD 400mA MOSFET 2A pulsed, strong plasma, full bright bulb increasing with positioning, strong distance neon, large LED field

C3242A ECB 2A Strong air plasma, full bright lightbulb increasing with positioning, excellent wide field

KN2222A EBC 600mA Strong air plasma with wide coil vertical position possible, full bright lightbulb, excellent wide field

C3198 ECB 150mA Strong air plasma, full bright lightbulb increasing with positioning, excellent wide field

C1213 ECB 500mA (C) Air plasma, full bright lightbulb, excellent wide field

MPSA06 EBC 500mA Air plasma, full lightbulb, excellent field

C2120 ECB 800mA Plasma, full bright lightbulb, lower LED field strong within

C536N ECB 150mA Plasma with body capacitance, full bright lightbulb, excellent LED field

G3195 ECB ? Plasma with body capacitance, full lightbulb, excellent LED field

D667 ECB 1A (C) Plasma with body capacitance, full lightbulb, excellent LED field - taller case

30611 EBC ? Plasma with body capacitance, 95% lightbulb, excellent LED field

H945 ECB 150mA (P) Tiny plasma with body capacitance, 90% lightbulb, good neon, good LED field

30613 EBC ? Tiny plasma with body capacitance, 90% lightbulb, good neon, good LED field

C1815 ECB 100mA No plasma, 90% lightbulb, good neon, very good LED field

2N3904 EBC 100mA Slightly stronger in all aspects than the tested C9014

C9014 EBC 100mA (C) 90% lightbulb, good neon, good LED field

BC547 CBE 100mA (B) 60% lightbulb, low neon, bright LED field near to tower

30612 EBC ? 60% lightbulb, good LED field distance

C2878 ECB 300mA (A) 30% lightbulb, good neon, good LED field

C1854 ECB ? 30% lightbulbbulb, good neon, good LED field

MPSA44 ECB 300mA 30% lightbulb, good neon, low end LED field

C945 ECB 100mA 25% lightbulb, very low neon, good LED field

C2229 ECB 20mA 20% lightbulb, very low neon, good LED field for other traits

KSP13 EBC 500mA Very weak, partial neon, low LED field - it's a Darlington!

S9018 EBC 50mA Very weak, partial neon, low LED field

MPSA13 EBC 500mA This one was all but dead. 2" wireless LED field. No power for anything else.

Notes:

