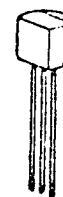


TO-92B



ECB

2SA1015 is PNP silicon planar transistor designed for audio frequency general purpose amplifier applications and driver stage amplifier applications.

ABSOLUTE MAXIMUM RATINGS

|  |          |               |
|--|----------|---------------|
| Collector-Base Voltage                   | VCBO     | 50V           |
| Collector-Emitter Voltage                | VCEO     | 50V           |
| Emitter-Base Voltage                     | VEBO     | 5V            |
| Collector Current                        | IC       | 150mA         |
| Total Power Dissipation                  | Ptot     | 400mW         |
| Operating Junction & Storage Temperature | Tj, Tstg | -55 to +125°C |

ELECTRICAL CHARACTERISTICS (Ta=25°C)

| PARAMETER                            | SYMBOL   | MIN      | MAX | UNIT | TEST CONDITIONS                   |
|--------------------------------------|----------|----------|-----|------|-----------------------------------|
| Collector Cutoff Current             | ICBO     |          | 100 | nA   | VCB=50V IE=0                      |
| Emitter Cutoff Current               | IEBO     |          | 100 | nA   | VEB=5V IC=0                       |
| D.C. Current Gain                    | HFE      | 70<br>25 | 400 |      | IC=2mA VCE=6V<br>IC=150mA VCE=6V* |
| Collector-Emitter Saturation Voltage | VCE(sat) |          | 0.3 | V    | IC=100mA IB=10mA*                 |
| Base-Emitter Saturation Voltage      | VBE(sat) |          | 1.1 | V    | IC=100mA IB=10mA*                 |
| Current Gain-Bandwidth Product       | fT       | 80       |     | MHz  | IC=1mA VCE=10V                    |
| Output Capacitance                   | Cob      |          | 7   | pF   | VCB=10V f=1MHz                    |
| Noise Figure                         | NF       |          | 10  | dB   | IC=100µA VCB=6V<br>Rg=10KΩ f=1KHz |

\* Pulse Test : Pulse Width = 300µs, Duty Cycle = 2%.

HFE Grouping @ IC=2mA VCE=6V

O : 70-140 Y : 120-240 GR : 200-400



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1-1. Dmp

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