

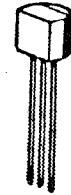
MICRO ELECTRONICS

2N5232

NPN SILICON
TRANSISTOR

2N5232 is NPN silicon planar transistor use in general purpose applications.

TO-92B



ECB

ABSOLUTE MAXIMUM RATINGS

| | | |
|--|-----------------------------------|---------------|
| Collector-Emitter Voltage | V _{CEO} | 50V |
| Collector-Base Voltage | V _{CB0} | 70V |
| Emitter-Base Voltage | V _{EB0} | 5V |
| Collector Current | I _C | 100mA |
| Total Power Dissipation | P _{tot} | 330mW |
| Operating Junction & Storage Temperature | T _j , T _{stg} | -55 to +150°C |

ELECTRICAL CHARACTERISTICS (T_a=25°C)

| PARAMETER | SYMBOL | MIN | MAX | UNIT | TEST CONDITIONS |
|--------------------------------------|----------------------|-----|------|------|-----------------------------|
| Collector-Emitter Breakdown Voltage | LV _{CEO} | 50 | | V | I _C =10mA IB=0 |
| Collector-Base Breakdown Voltage | BV _{CB0} | 70 | | V | I _C =100μA IE=0 |
| Emitter-Base Breakdown Voltage | BV _{EB0} | 5 | | V | IE=100μA IC=0 |
| Collector Cutoff Current | IC _{B0} | | 30 | nA | VCB=50V IE=0 |
| Collector Cutoff Current | IC _{ES} | | 30 | nA | VCB=50V VEB=0 |
| Emitter Cutoff Current | IE _{B0} | | 50 | nA | VEB=5V IC=0 |
| D.C. Current Gain | H _{FE} | 250 | 500 | | I _C =2mA VCE=10V |
| Base-Emitter Voltage | V _{BE} | | 0.9 | V | I _C =2mA VCE=10V |
| Collector-Emitter Saturation Voltage | V _{CE(sat)} | | 0.12 | V | I _C =10mA IB=1mA |
| Base-Emitter Saturation Voltage | V _{BE(sat)} | | 0.78 | V | I _C =10mA IB=1mA |
| Output Capacitance | C _{ob} | | 4 | pF | VCB=10V f=1MHz |

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