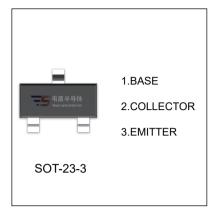


BCX19 TRANSISTOR (NPN)

FEATURES

Low voltage



MAXIMUM RATINGS (T_a =25 $^{\circ}$ C unless otherwise noted)

| Symbol | Parameter | Value | Unit |
|------------------|--|----------|------------|
| V _{CBO} | Collector-Base Voltage | 50 | V |
| V _{CEO} | Collector-Emitter Voltage | 45 | V |
| V _{EBO} | Emitter-Base Voltage | 5 | V |
| Ic | Collector Current | 500 | mA |
| Pc | Collector Power Dissipation | 225 | mW |
| R _{OJA} | Thermal Resistance From Junction To Ambient | 556 | °C/W |
| T_J, T_{stg} | Operation Junction and Storage Temperature Range | -55~+150 | $^{\circ}$ |

ELECTRICAL CHARACTERISTICS (Ta=25°C unless otherwise specified)

| Parameter | Symbol | Test conditions | Min | Тур | Max | Unit |
|--------------------------------------|-----------------------|--|-----|-----|------|------|
| Collector-emitter breakdown voltage | V _{(BR)CBO} | I _C =100μA, I _E =0 | 50 | | | V |
| Collector-emitter breakdown voltage | V _{(BR)CEO} | I _C =10mA, I _B =0 | 45 | | | V |
| Emitter-base breakdown voltage | V _{(BR)EBO} | I _E =100μA, I _C =0 | 5 | | | V |
| Collector cut-off current | I _{CBO} | V _{CB} =20V , I _E =0 | | | 0.1 | μΑ |
| Collector cut-off current | I _{EBO} | V _{EB} =5V , I _C =0 | | | 10 | μΑ |
| | h _{FE1} | V _{CE} =1V, Ic=100mA | 100 | | 600 | |
| DC current gain | h _{FE2} | V _{CE} =1V, Ic=300mA | 70 | | | |
| | h _{FE3} | V _{CE} =1V, Ic=500mA | 40 | | | |
| Collector-emitter saturation voltage | V _{CE} (sat) | Ic=500mA, I _B =50mA | | | 0.62 | V |
| Base-emitter voltage | V _{BE} (on) | Ic=500mA, V _{CE} =1V | | | 1.2 | V |



