

SOT-323 Plastic-Encapsulate DIODE

BAS19W/20W/21W SWITCHING DIODE

FEATURES

Power dissipation

P_D : 200 mW ($T_{amb}=25^{\circ}C$)

Collector current

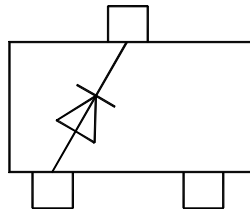
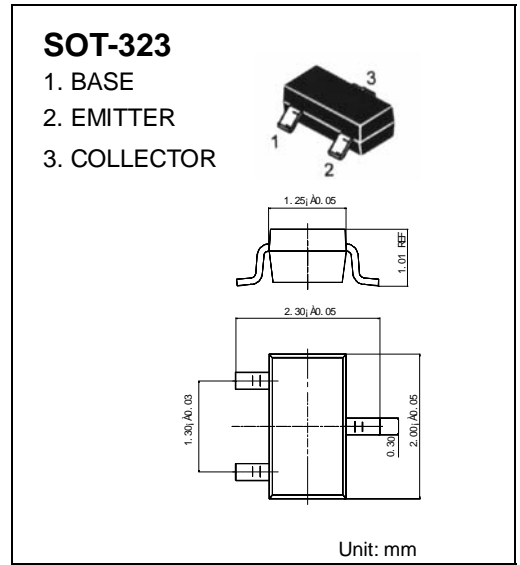
I_F : 200 mA

Collector-base voltage

V_R : 19W: 120 V; 20W: 150V ; 21W: 200V

Operating and storage junction temperature range

T_J, T_{stg} : $-55^{\circ}C$ to $+150^{\circ}C$



Marking: BAS19W KA8
 BAS20W KT2
 BAS21W KT3

ELECTRICAL CHARACTERISTICS ($T_{amb}=25^{\circ}C$ unless otherwise specified)

| Parameter | Symbol | Test conditions | MIN | MAX | UNIT |
|----------------------------------------------------------------------|-------------|-------------------------------------------------|-------------------|--------------|---------|
| Reverse breakdown voltage BAS19W BAS20W BAS21W | $V_{(BR)R}$ | $I_R = 100\mu A$ | 100 150 200 | | V |
| Reverse voltage leakage current BAS19W BAS20W BAS21W | I_R | 100V $V_R = 150V$ 200V | | 0.1 | μA |
| Forward voltage | V_F | $I_F = 100mA$ $I_F = 200mA$ | | 1000 1250 | mV |
| Diode capacitance | C_D | $V_R = 0V, f = 1MHz$ | | 5 | pF |
| Reveres recovery time | t_{rr} | $I_F = I_R = 30mA$ $I_{rr} = 0.1 \times I_R$ | | 50 | nS |