FOR SMALL TYPE COLOUR TV CHROMA OUTPUT APPLICATION SILICON NPN TRIPLE DIFFUSED TYPE

DESCRIPTION

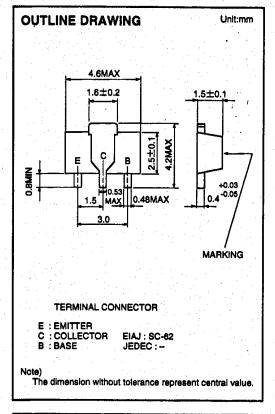
2SC5210 is a silicon NPN triple diffused transistor designed for colour TV chrom output circuit, high voltage switching circuit application.

FEATURE

- ●High voltage VCEO=250V
- ●Low Cob Cob=3.5pF typ
- ●High ft fr=80MHz typ
- Small package for mounting

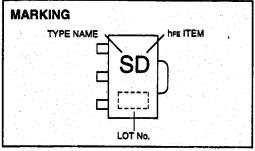
APPLICATION

Small type colour TV chroma output circuit, high voltage switching circuit.



MAXIMUM RATINGS (Ta=25°C)

| Symbol | Parameter | Ratings | Unit |
|--------|--------------------------------|-------------|------|
| Vcво | Collector to Base voltage | 300 | V |
| VEBO | Emitter to Base voltage | 5 | V |
| VCEO | Collector to Emitter voltage | 250 | V |
| lc | Collector current | 100 | mA. |
| Pc . | Collector dissipation(Ta=25°C) | 500 | mW |
| Tj | Junction temperature | +150 | ů |
| Tstg | Storage temperature | -55 to +150 | င |



ELECTRICAL CHARACTERISTICS (Ta=25°C)

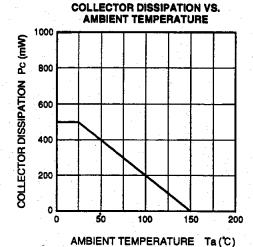
| Symbol | Parameter | Test conditions | | Limits | | Unit |
|----------|------------------------------|--|-----|--------|-----|------|
| | | | | Typ | Max | Unit |
| V(BR)CBO | C to B break down voltage | IC=10 μ A,IE=0 | 300 | | | V |
| V(BR)EBO | E to B break down voltage | IE=10 μ A,IC=0 | 5 | | | V |
| V(BR)CEO | C to E break down voltage | IC=5mA,RBE=∞,pulse measurement | 250 | | | V |
| Ісво | Collector cut off current | Vcs=150V,IE=0 | | | 4 | μА |
| hfe * | DC forward current gain | VcE=10V,lc=25mA | 55 | | 230 | |
| VCE(sat) | C to E saturation voltage | Ic=25mA,IB=2.5mA | | | 1,5 | V |
| fr | Gain band width product | VCE=10V,IE=-10mA,f=10MHz | 60 | 80 | | MHz |
| Cob | Collector output capacitance | Vcs=10V,IE=0,f=1MHz,triode measurement | | 3.5 | | ρF |

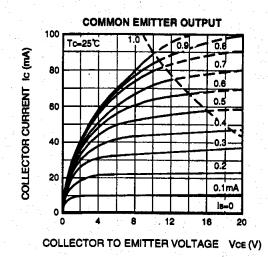
^{* :} It shows her classification in right table.

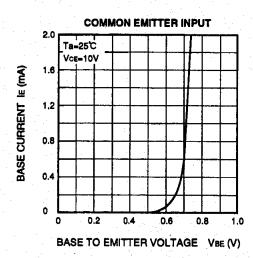
| Marking | SC | SD | SE |
|---------|-----------|-----------|------------|
| hFE | 55 to 110 | 90 to 180 | 150 to 230 |

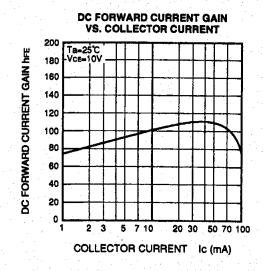
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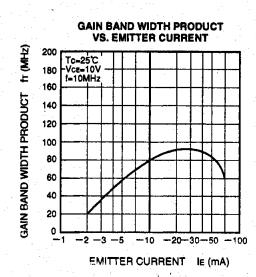
TYPICAL CHARACTERISTICS













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