

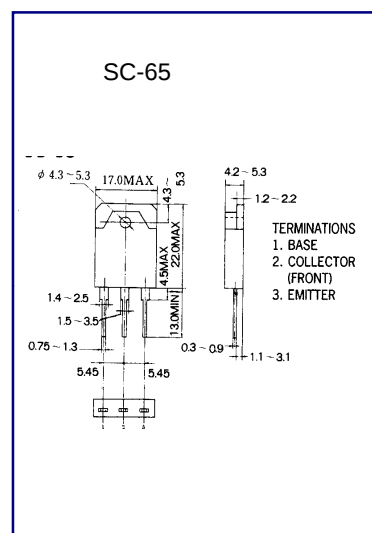
**2SC2581****NPN PLANAR SILICON TRANSISTOR**

### AUDIO POWER AMPLIFIER DC TO DC CONVERTER

- High Current Capability
- High Power Dissipation
- Complementary to 2SA1106

### ABSOLUTE MAXIMUM RATING (Ta=25°C)

| Characteristic            | Symbol | Rating  | Unit |
|---------------------------|--------|---------|------|
| Collector-Base Voltage    | VCBO   | 200     | V    |
| Collector-Emitter Voltage | VCEO   | 140     | V    |
| Emitter-Base voltage      | VEBO   | 6       | V    |
| Collector Current (DC)    | IC     | 10      | A    |
| Collector Dissipation     | PC     | 100     | W    |
| Junction Temperature      | Tj     | 150     | °C   |
| Storage Temperature       | Tstg   | -55~150 | °C   |



### ELECTRICAL CHARACTERISTICS (Ta=25°C)

| Characteristic                        | Symbol   | Test Condition                | Min | Typ | Max | Unit |
|---------------------------------------|----------|-------------------------------|-----|-----|-----|------|
| Collector Base Breakdown Voltage      | BVCBO    | IC=5 mA IE=0                  | 200 |     |     | V    |
| Collector Emitter Breakdown Voltage   | BVCEO    | IC=10 mA                      | 140 |     |     | V    |
| Emitter Base Breakdown Voltage        | BVEBO    | RB=∞                          | 6   |     |     | V    |
| Collector Cutoff Current              | ICBO     | IE=5mA IC=0                   |     |     | 0.1 | mA   |
| Emitter Cutoff Current                | IEBO     | VCB=100V IE=0                 |     |     | 0.1 | mA   |
| *DC Current Gain                      | hFE1     | VEB=4V IC=0                   | 55  |     | 160 |      |
| DC Current Gain                       | hFE2     | VCE=5V IC=1A                  | 50  |     |     |      |
| Collector- Emitter Saturation Voltage | VCE(sat) | VCE=5V IC=5A<br>IC=5A IB=0.5A |     |     | 2.0 | V    |

Wing Shing Computer Components Co., (H.K.)Ltd.  
Homepage: <http://www.wingshing.com>

Tel:(852)2341 9276 Fax:(852)2797 8153  
E-mail: wsccltd@hkstar.com