Panasonic

2SC5244, 2SC5244A

Silicon NPN triple diffusion mesa type

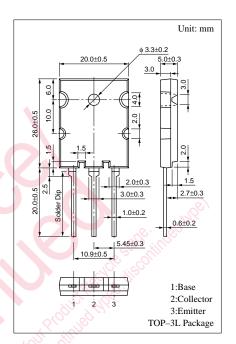
For horizontal deflection output

Features

- High breakdown voltage, and high reliability through the use of a glass passivation layer
- High-speed switching
- Wide area of safe operation (ASO)

Absolute Maximum Ratings (T_C=25°C)

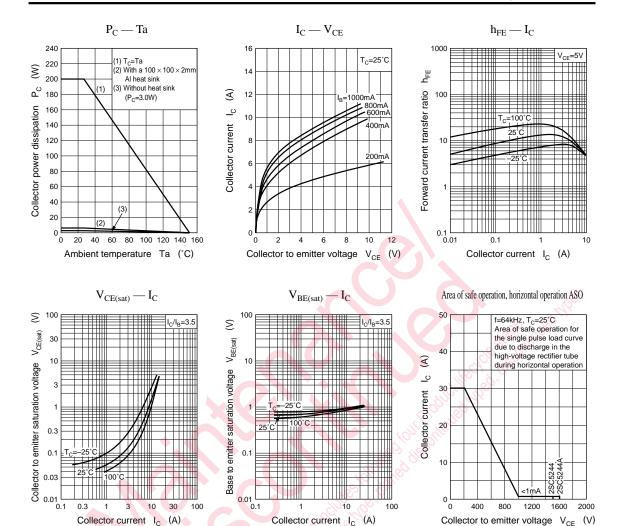
| Parameter | | Symbol | Ratings | Unit | |
|-------------------------|----------------------|------------------|-------------|---------|--|
| Collector to | 2SC5244 | V | 1500 | v | |
| base voltage | 2SC5244A | V_{CBO} | 1600 | | |
| Collector to | 2SC5244 | V | 1500 | v | |
| emitter voltage | 2SC5244A | V _{CES} | 1600 | | |
| Emitter to base voltage | | V _{EBO} | 6 | V | |
| Peak collector current | | I_{CP} | 20 | A | |
| Collector current | | I_{C} | 30 | A | |
| Collector power | T _C =25°C | D | 200 | w | |
| dissipation | Ta=25°C | P_{C} | 3.5 | W | |
| Junction temperature | | T_{j} | 150 | .c "ige | |
| Storage temperature | | T _{stg} | -55 to +150 | ,c | |

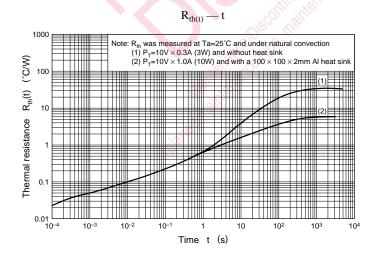


■ Electrical Characteristics (T_C=25°C)

| Parameter | | Symbol | Conditions | min | typ | max | Unit |
|--|----------|----------------------|--|-----|------|-----|------|
| Collector cutoff | 2SC5244 | T intelligible | $V_{CB} = 1500V, I_E = 0$ | | | 1 | 4 |
| current | 2SC5244A | I _{CBO} | $V_{CB} = 1600V, I_E = 0$ | | | 1 | mA |
| Emitter cutoff current | | I _{EBO} | $V_{EB} = 5V, I_{C} = 0$ | | | 50 | μΑ |
| Forward current transfer ratio | | h_{FE} | $V_{CE} = 5V, I_{C} = 10A$ | 5 | | 12 | |
| Collector to emitter saturation voltage V ₀ | | V _{CE(sat)} | $I_C = 10A, I_B = 2.8A$ | | | 3 | V |
| Base to emitter saturation voltage V _{BE} | | V _{BE(sat)} | $I_C = 10A, I_B = 2.8A$ | | | 1.5 | V |
| Transition frequency f _T | | f_T | $V_{CE} = 10V, I_C = 0.1A, f = 0.5MHz$ | | 3 | | MHz |
| Storage time t | | t _{stg} | $I_C = 12A$, $I_{B1} = 2.4A$, $I_{B2} = -4.8A$, | | 1.5 | 2.5 | μs |
| Fall time | | $t_{\rm f}$ | Resistance loaded | | 0.12 | 0.2 | μs |

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