RT2P18M

Composite Transistor With Resistor For Switching Application Silicon PNP Epitaxial Type

DESCRIPTION

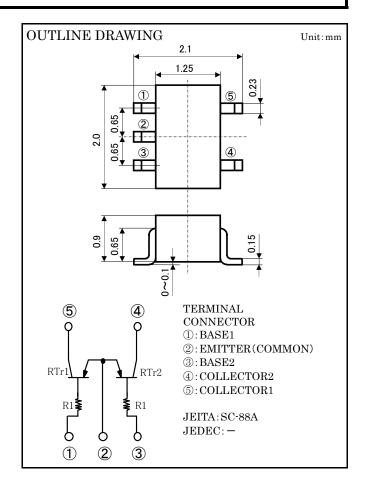
RT2P18M is composite transistor with built-in bias resistor.

FEATURE

Built-in bias resistor (R1=1 $k\Omega$) Mini package for easy mounting

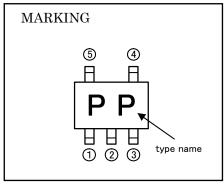
APPLICATION

Inverted circuit, Switching circuit, Interface circuit, Driver circuit



MAXIMUM RATING(Ta=25°C)(RTr1, RTr2 COMMON)

| SYMBOL | PARAMETER | RATING | UNIT |
|--------------------|------------------------------|----------|------|
| Vcbo | Collector to Base voltage | -50 | V |
| VEBO | Emitter to Base voltage | -6 | V |
| VCEO | Collector to Emitter voltage | -50 | V |
| Ic | Collector current | -100 | mA |
| Icm | Peak Collector current | -200 | mA |
| P_{T} | Total dissipation | 200 | mW |
| $T_{\rm j}$ | Junction temperature | +150 | ္ |
| T_{stg} | Storage temperature | -55~+150 | °C |



$ELECTRICAL\ CHARACTERISTICS (Ta=25°C) (RTr1,\ RTr2\ COMMON)$

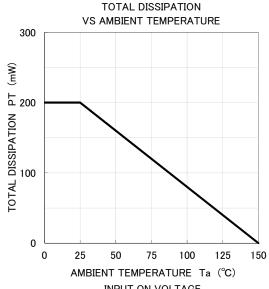
| SYMBOL | PARAMETER | TEST CONDITIONS | LIMITS | | | TINIIM |
|----------------|---|---|--------|-----|------|--------|
| | | | MIN | TYP | MAX | UNIT |
| V(BR)CEO | Collector to Emitter breakdown voltage | I_{C} =-100 μ A, R_{BE} = ∞ | -50 | _ | _ | V |
| Icbo | Collector cut off current | V_{CB} =-50V, I_{E} =0 | _ | _ | -0.1 | μΑ |
| IEBO | Emitter cut off current | V_{EB} =-5V, I_{C} =0 | _ | _ | -0.1 | μΑ |
| $_{ m hFE}$ | DC forward current gain | V _{CE} =-5V, I _C =-1mA | 100 | _ | _ | _ |
| VCE(sat) | Collector to Emitter saturation voltage | I _C =-10mA, I _B =-0.5mA | _ | _ | -0.3 | V |
| R ₁ | Input resistor | _ | 0.7 | 1.0 | 1.3 | kΩ |
| $ m f_{T}$ | Gain band width product | V _{CE} =-6V, I _E =10mA | _ | 150 | _ | MHz |

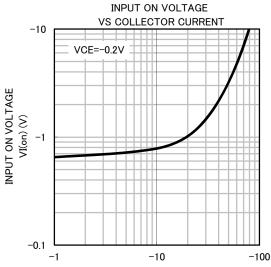
RT2P18M

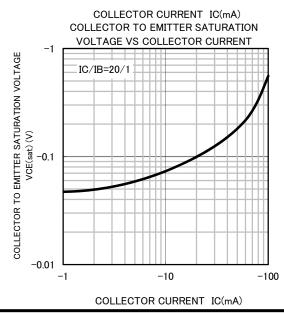
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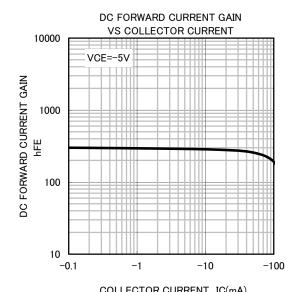
TYPICAL CHARACTERISTICS

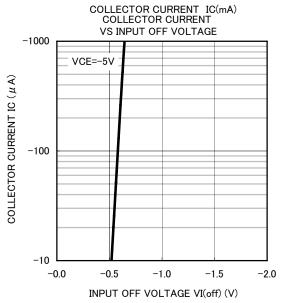
(Ta=25°C)(RTr1,RTr2 COMMON)













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