Notice: This is not a final specification Some parametric are subject to change.

RT3A66M

Dual Transistor For Differential Amplify Application Silicon Pnp Epitaxial Type

DESCRIPTION

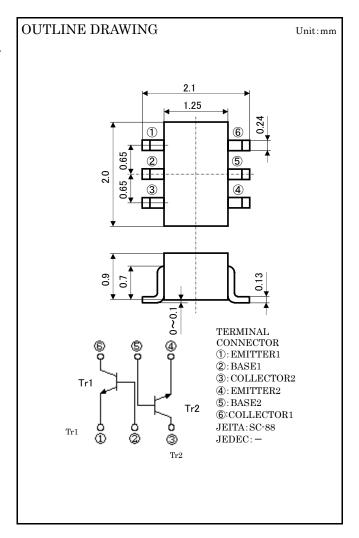
RT3A66M is a sillicon PNP epitaxial type dual transistor. It is designed for differential amplify application.

FEATURE

- ●High Vceo Vceo=-150V
- Good two elements characteristics $h_{FE1}/h_{FE2}=1.0$ typ $|V_{BE1}V_{BE2}|=2mV$ typ

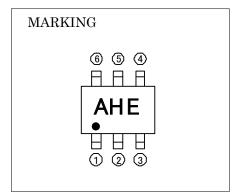
APPLICATION

For differential amplify application.



MAXIMUM RATING (Ta=25°C) (Tr1, Tr2.)

| SYMBOL | PARAMETER | RATING | UNIT | |
|------------------|--------------------------------------|-------------------|------|--|
| V _{CBO} | Collector to Base voltage | -160 | V | |
| V _{EBO} | Emitter to Base voltage | -5 | ٧ | |
| V _{CEO} | Collector to Emitter voltage | -150 | ٧ | |
| I _{CM} | Peak collector current | -200 | mA | |
| I _C | Collector current | -100 | mA | |
| P _T | Total allowance dissipation(Ta=25°C) | 200 | mW | |
| T _j | Junction temperature | +150 | °C | |
| T_{stg} | Storage temperature | -55 ~ +150 | °C | |



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ELECTRICAL CHARACTERISTICS (Ta=25°C) (Tr1, Tr2.)

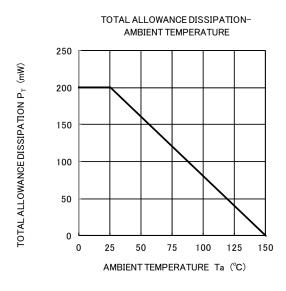
| Symbol | Parameter | Test conditions | Limits | | | TT '4 |
|-------------------------------------|-------------------------------|---|--------|-----|-------|-------|
| | | | Min | Тур | Max | Unit |
| V _{(BR)CBO} | C to B break down voltage | $I_c=-100 \mu A, I_E=0mA$ | -160 | - | - | ٧ |
| V _{(BR)EBO} | E to B break down voltage | I_{E} =-10 μ A, I_{C} =0mA | -5 | - | _ | ٧ |
| V _{(BR)CEO} | C to E break down voltage | I _c =−1mA, R _{BE} =∞ | -150 | - | - | ٧ |
| I _{CBO} | Collector cut off current | V_{CB} =-120V, I $_{E}$ =0mA | - | - | -100 | nA |
| I _{EBO} | Emitter cut off current | V _{EB} =-3V, I _c =0mA | - | - | -100 | nA |
| hFE1 | DC forward current gain1 | VCE=-5V, I _c =-1mA | 45 | - | - | - |
| hFE2 | DC forward current gain2 | VCE=-5V, I _c =-10mA | 90 | _ | 270 | - |
| hFE3 | DC forward current gain3 | VCE=-5V, I _c =-50mA | 45 | - | - | - |
| VCE(sat)1 | C to E saturation voltage1 | I _c =-10mA, I _B =-1mA | - | - | -0.2 | ٧ |
| VCE(sat)2 | C to E saturation voltage2 | I _c =-50mA, I _B =-5mA | - | _ | -0.5 | ٧ |
| VBE(sat)1 | B to E saturation voltage1 | I _c =-10mA, I _B =-1mA | - | _ | -1.0 | ٧ |
| VBE(sat)2 | B to E saturation voltage2 | I _c =-50mA, I _B =-5mA | - | - | -1.0 | ٧ |
| VBE1-VBE2 (%VBE1:Tr1,VBE2:Tr2) | B-E voltage differential | VCE=-5V, I _c =-1mA | - | 2 | 10 | mV |
| hFE1/hFE2 (%hFE1:Tr1,hFE2:Tr2) | DC forward current gain raito | VCE=-5V, I _c =-1mA | 0.9 | 1.0 | 1.1 | - |
| VBE(on) | B to E on voltage | VCE=-5V, I $_{\mathrm{c}}$ =-10mA | - | - | -0.77 | ٧ |
| fT | Gain bandwidth product | VCE=-10V, I _E =10mA | 100 | - | 300 | MHz |
| Cob | Collector output capacitance | VCB=-10V, I _E =0mA, f=1MHz | - | 2.8 | 6 | pF |

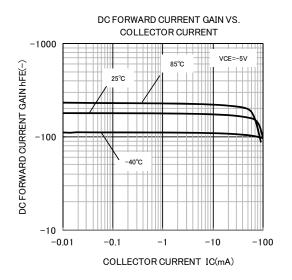
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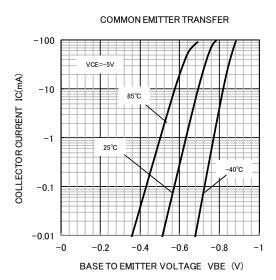
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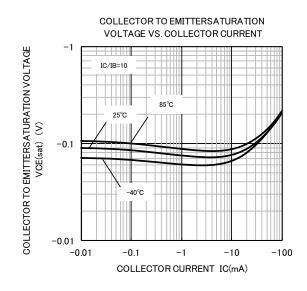
Dual Transistor
For Differential Amplify Application
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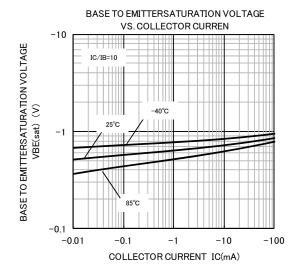
TYPICAL CHARACTERISTICS (Tr1,Tr2.)







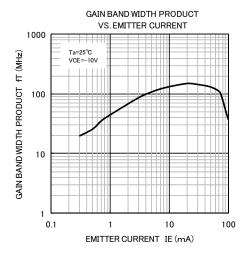


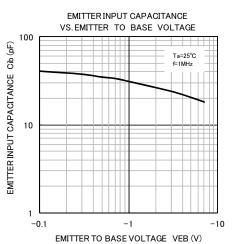


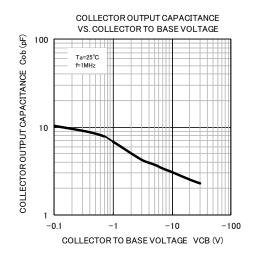
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