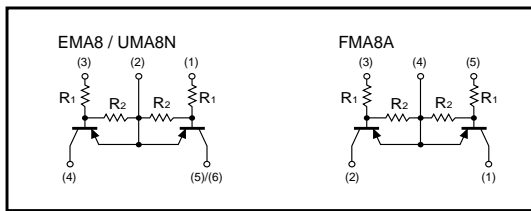**Transistors**

# Emitter common (dual digital transistors)

## EMA8 / UMA8N / FMA8A

● **Features**

1) Two DTA114Y chips in a EMT or UMT or SMT
   package.

● **Equivalent circuit**
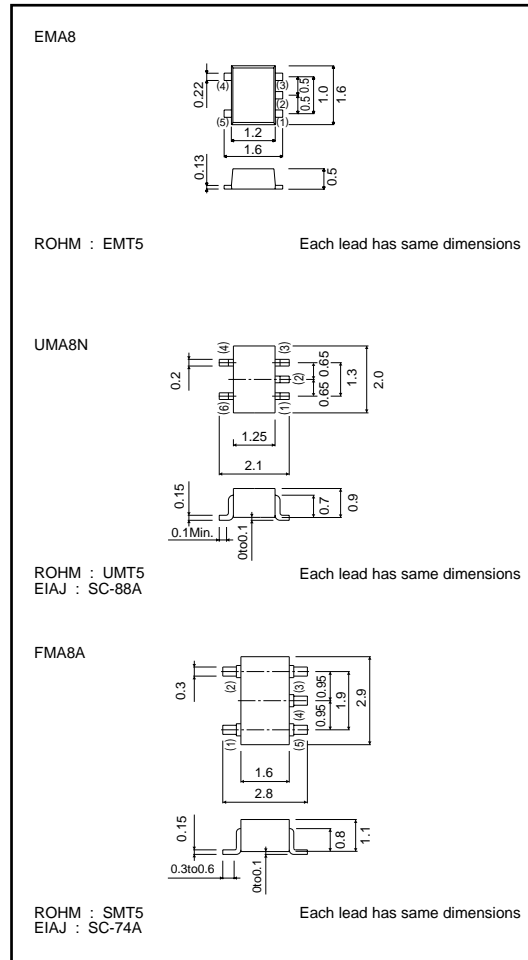


● **Package, marking, and packaging specifications**

| Type | EMA8 | UMA8N | FMA8A |
|---|---|---|---|
| Package | EMT5 | UMT5 | SMT5 |
| Marking | A8 | A8 | A8 |
| Code | T2R | TR | T148 |
| Basic ordering unit (pieces) | 8000 | 3000 | 3000 |

● **Absolute maximum ratings** (Ta = 25°C)

| Parameter | Symbol | Limits | Unit |
|---|---|---|---|
| Supply voltage | $V_{CC}$ | −50 | V |
| Input voltage | $V_{IN}$ | −40 | V |
| | | 6 | |
| Output current | $I_O$ | −100 | mA |
| Power dissipation | Pd | 300(TOTAL) | mW ∗ |
| Storage temperature | Tstg | −50~+150 | °C |

∗200mW per element must not be exceeded.

● **External dimensions** (Units : mm)



EMA8

ROHM : EMT5 — Each lead has same dimensions

UMA8N

ROHM : UMT5
EIAJ : SC-88A — Each lead has same dimensions

FMA8A

ROHM : SMT5
EIAJ : SC-74A — Each lead has same dimensions

● **Electrical characteristics** (Ta = 25°C)

| Parameter | Symbol | Min. | Typ. | Max. | Unit | Conditions |
|---|---|---|---|---|---|---|
| Input voltage | $V_{I (off)}$ | – | – | −0.3 | V | $V_{CC}$=−5V, $I_O$=−100µA |
| | $V_{I (on)}$ | −1.4 | – | – | | $V_O$=−0.3V, $I_O$=−1mA |
| Output voltage | $V_{O (on)}$ | – | −0.1 | −0.3 | V | $I_O$=−10mA, $I_I$=−0.5mA |
| Input current | $I_I$ | – | – | −0.88 | mA | $V_I$=−5V |
| Output current | $I_{O (off)}$ | – | – | −0.5 | µA | $V_{CC}$=−50V, $V_I$=0V |
| DC current gain | $G_I$ | 68 | – | – | – | $I_O$=−5mA, $V_O$=−5V |
| Input resistance | $R_1$ | – | 10 | – | kΩ | – |
| Resistance ratio | $R_2/R_1$ | 3.7 | 4.7 | 5.7 | – | – |

**ROHM**

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 SMUN5235T1G  SMUN5330DW1T1G  SSVMUN5312DW1T2G  RN1303(TE85L,F)  RN4605(TE85L,F)  TTEPROTOTYPE79
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2SC3912-TB-E  SMUN5237DW1T1G  SMUN5213DW1T1G  SMUN5114DW1T1G  SMUN2111T1G  NSVDTC144EM3T5G  DTC124ECA-
TP  DTC123TM3T5G  DTA114ECA-TP  DTA113EM3T5G  DCX115EK-7-F  DTC113EM3T5G  NSVMUN5135DW1T1G
NSVMUN2237T1G  NSVDTC143ZM3T5G  SMUN5335DW1T2G  SMUN5216DW1T1G