## **Tentative**

| DMA3        | 364A0 |
|-------------|-------|
| Total pages | page  |
|             |       |

## **DMA364A0**

Silicon PNP epitaxial planar type (Tr1)

Silicon PNP epitaxial planar type (Tr2)

For digital circuits

Marking Symbol: P7

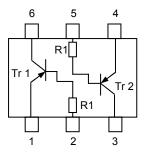
Package Code: SSSMini6-F2-B

## Absolute Maximum Ratings Ta = 25 °C

|         | Parameter                             | Symbol | Rating      | Unit |
|---------|---------------------------------------|--------|-------------|------|
| Tr1     | Collector-base voltage (Emitter open) | VCBO   | -50         | V    |
| Tr2     | Collector-emitter voltage (Base open) | VCEO   | -50         | V    |
| 112     | Collector current                     | IC     | -80         | mA   |
|         | Total power dissipation *1            | PT     | 125         | mW   |
| Overall | Junction temperature                  | Tj     | 150         | °C   |
|         | Storage temperature                   | Tstg   | -55 to +150 | °C   |

Note: 1. \*1 Measuring on substrate at 17 mm × 10 mm × 1 mm

### **Internal Connection**



| Resistance | D1 | 47 | kO  |
|------------|----|----|-----|
| value      | KI | 47 | KS2 |

#### Pin name

| 1 111 1           | Idilic            |
|-------------------|-------------------|
| 1. Emitter(Tr1)   | 4. Emitter(Tr2)   |
| 2. Base(Tr1)      | 5. Base(Tr2)      |
| 3. Collector(Tr2) | 6. Collector(Tr1) |

# Electrical Characteristics Ta = 25 °C ±3 °C Tr1,Tr2

| Parameter                                    | Symbol   | Conditions                | Min  | Тур | Max   | Unit |
|--|----------|---------------------------|------|-----|-------|------|
| Collector-base voltage (Emitter open)        | VCBO     | IC = -10 μA, IE = 0       | -50  |     |       | V    |
| Collector-emitter voltage (Base open) *      | VCEO     | IC = -2 mA, IB = 0        | -50  |     |       | V    |
| Collector-base cutoff current (Emitter open) | ICBO     | VCB = -50 V, IE = 0       |      |     | -0.1  | μΑ   |
| Collector-emitter cutoff current (Base open) | ICEO     | VCE = -50 V, IB = 0       |      |     | -0.5  | μΑ   |
| Emitter-base cutoff current (Collector open) | IEBO     | VEB = -6 V, IC = 0        |      |     | -0.01 | mΑ   |
| Forward current transfer ratio               | hFE      | VCE = -10 V, IC = -5 mA   | 160  |     | 460   | -    |
| Collector-emitter saturation voltage         | VCE(sat) | IC = -10 mA, IB = -0.5 mA |      |     | -0.25 | V    |
| Input voltage                                | Vi(on)   | VCE = -0.2 V, IC = -5 mA  | -2.8 |     |       | \/   |
| Input voltage                                | Vi(off)  | VCE = -5 V, IC = -100 μA  |      |     | -0.4  | V    |
| Input resistance                             | R1       |                           | -30% | 47  | +30%  | kΩ   |

Note: 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 Measuring methods for transistors.

2. \*1 Pulse measurement

#### Packing

Embossed type (Thermo-compression sealing) R specification: 10 000 pcs / reel

| 2010.3.3 | 2010.9.16 |
|----------|-----------|
| Prepared | Revised   |

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