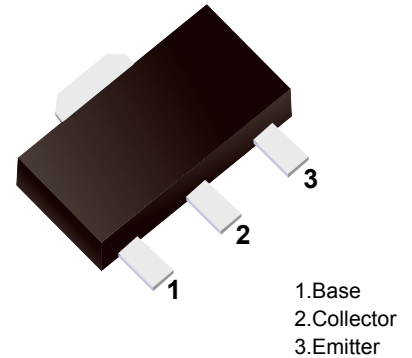


■ PNP Transistors

■ Features

- Low Saturation Voltage: $V_{CE(sat)} = -0.5V$ (max) ($I_c = -1A$)
- High Speed Switching Time: $t_{stg} = 1.0\mu s$ (typ.)
- Small Flat Package
- $P_c = 1$ to $2W$ (mounted on ceramic substrate)
- Complementary to 2SC2873



■ Simplified outline(SOT-89)

■ Absolute Maximum Ratings $T_a = 25^\circ C$

| Parameter | Symbol | Rating | Unit |
|--------------------------------|-----------|------------|------------|
| Collector - Base Voltage | V_{CBO} | -50 | V |
| Collector - Emitter Voltage | V_{CEO} | -50 | |
| Emitter - Base Voltage | V_{EBO} | -5 | |
| Collector Current - Continuous | I_c | -2 | A |
| Base Current - Continuous | I_B | -0.4 | |
| Collector Power Dissipation | P_c | 500 | mW |
| Junction Temperature | T_J | 150 | $^\circ C$ |
| Storage Temperature range | T_{stg} | -55 to 150 | |

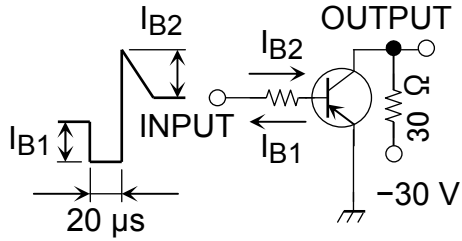
■ Electrical Characteristics $T_a = 25^\circ C$

| Parameter | Symbol | Test Conditions | Min | Typ | Max | Unit |
|--------------------------------------|---------------|------------------------------------|-----|-----|------|------|
| Collector- base breakdown voltage | V_{CBO} | $I_c = -100 \mu A, I_E = 0$ | -50 | | | V |
| Collector- emitter breakdown voltage | V_{CEO} | $I_c = -10 mA, I_B = 0$ | -50 | | | |
| Emitter - base breakdown voltage | V_{EBO} | $I_E = -100 \mu A, I_c = 0$ | -5 | | | |
| Collector-base cut-off current | I_{CBO} | $V_{CB} = -50 V, I_E = 0$ | | | -100 | nA |
| Emitter cut-off current | I_{EBO} | $V_{EB} = -5V, I_c = 0$ | | | -100 | |
| Collector-emitter saturation voltage | $V_{CE(sat)}$ | $I_c = -1 A, I_B = -50mA$ | | | -0.5 | V |
| Base - emitter saturation voltage | $V_{BE(sat)}$ | $I_c = -1 A, I_B = -50mA$ | | | -1.2 | |
| DC current gain | $h_{FE(1)}$ | $V_{CE} = -2V, I_c = -0.5A$ | 70 | | 240 | |
| | $h_{FE(2)}$ | $V_{CE} = -2V, I_c = -2A$ | 20 | | | |
| Turn-on time | t_{on} | See Test Circuit. | | 0.1 | | us |
| Storage time | t_{stg} | | | 1 | | |
| Fall time | t_f | | | 0.1 | | |
| Collector output capacitance | C_{ob} | $V_{CB} = -10V, I_E = 0, f = 1MHz$ | | 40 | | pF |
| Transition frequency | f_T | $V_{CE} = -2V, I_c = -0.5A$ | | 120 | | MHz |

■ Classification of $h_{FE(1)}$

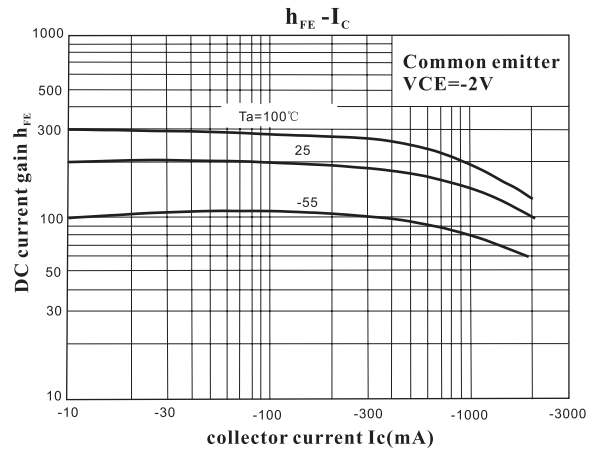
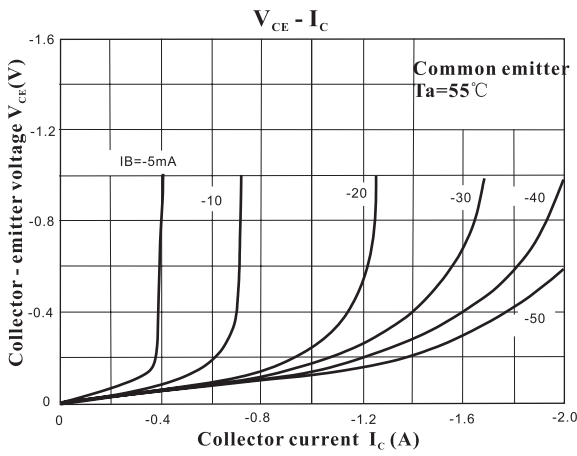
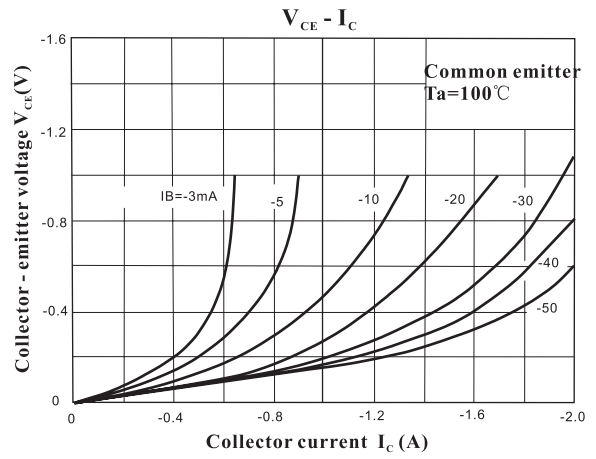
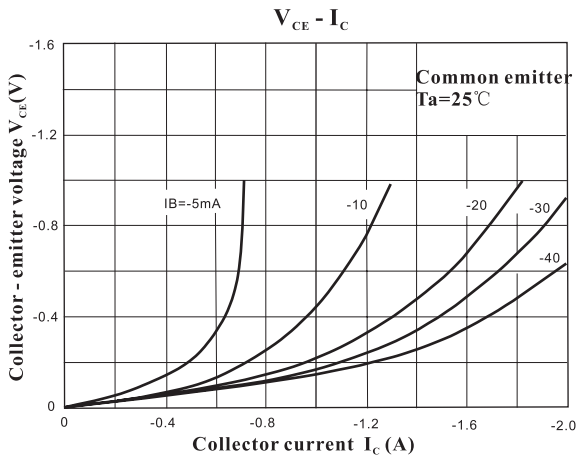
| Type | 2SA1213-O | 2SA1213-Y |
|---------|-----------|-----------|
| Range | 70-140 | 120-240 |
| Marking | NO | NY |

■ Test Circuit

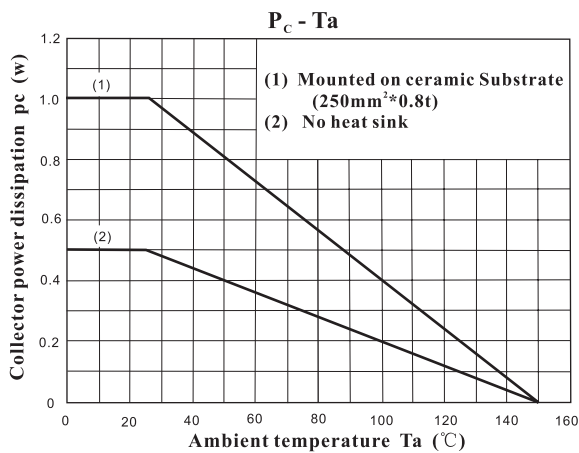
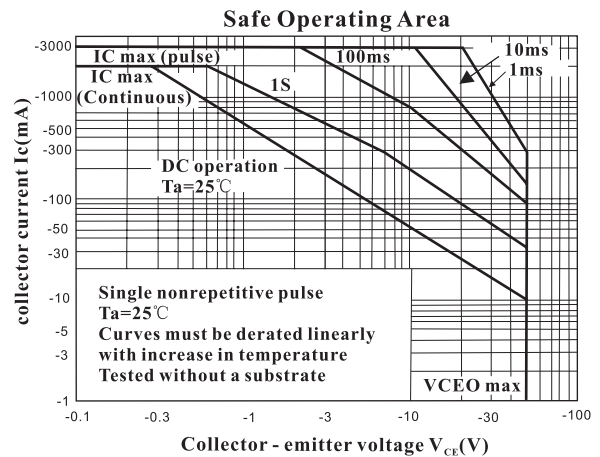
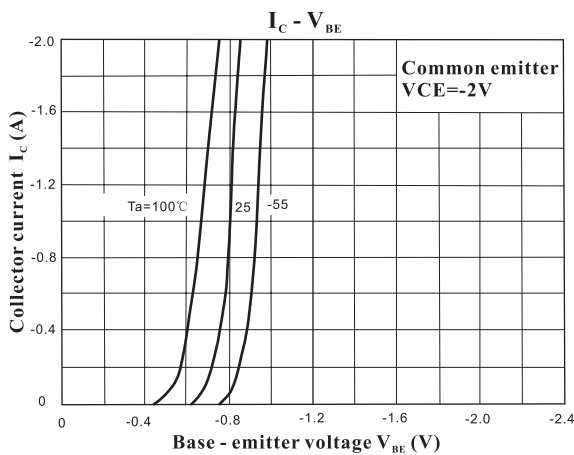
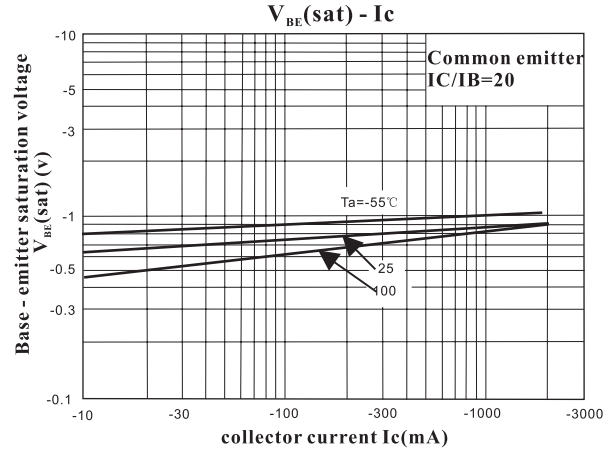
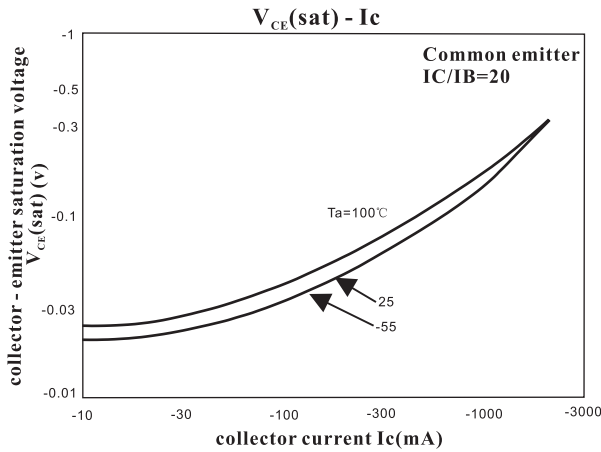


$I_{B1} = 0.05 \text{ A}, I_{B2} = 0.05 \text{ A}$
DUTY CYCLE $\leq 1\%$

■ Typical Characteristics

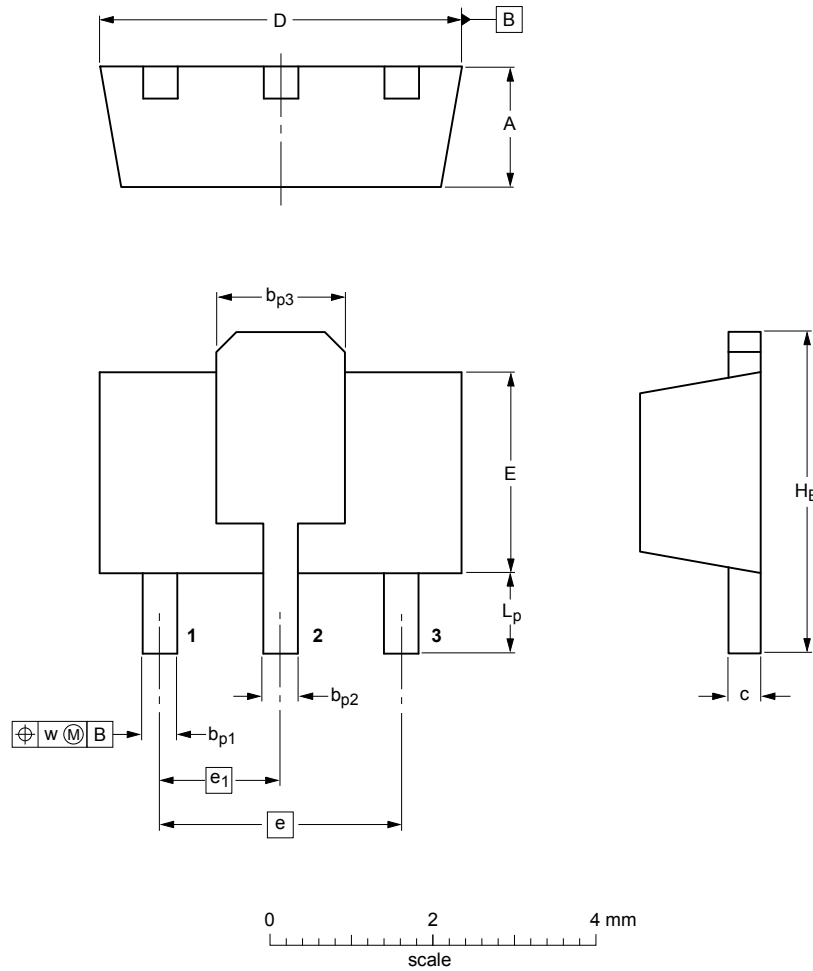


■ Typical Characteristics



Package Outline

SOT-89



DIMENSIONS (mm are the original dimensions)

| UNIT | A | b _{p1} | b _{p2} | b _{p3} | c | D | E | e | e ₁ | H _E | L _p | w |
|------|------------|-----------------|-----------------|-----------------|--------------|------------|------------|-----|----------------|----------------|----------------|------|
| mm | 1.6 1.4 | 0.48 0.35 | 0.53 0.40 | 1.8 1.4 | 0.44 0.23 | 4.6 4.4 | 2.6 2.4 | 3.0 | 1.5 | 4.25 3.75 | 1.2 0.8 | 0.13 |

Summary of Packing Options

| Package | Package Description | Packing Quantity | Industry Standard |
|---------|---------------------|------------------|-------------------|
| SOT-89 | Tape/Reel, 7" reel | 1000 | EIA-481-1 |

单击下面可查看定价，库存，交付和生命周期等信息

[>>YFW\(佑风微\)](#)