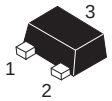
RF T

10 V, 70 mA, f_T = 7 GHz, NPN Single SSFP

2SC5488A



SOT−623 / SSFP
CASE 631AC

Features

- Low−noise: NF = 1.0 dB Typ (f = 1 GHz)
- High Gain: $|S21e|^2$ = 12 dB Typ (f = 1 GHz)
- High Cut−off Frequency: f_T = 7 GHz Typ
- Ultrasmall, Slim Flat−lead Package (1.4 mm x 0.8 mm x 0.6 mm)
- This Device is Pb−Free and Halogen Free

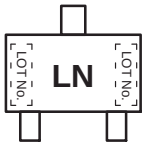
Specifications

ABSOLUTE MAXIMUM RATINGS (T_A = 25°C)

Symbol	Parameter	Value	Unit
V_{CBO}	Collector−to−Base Voltage	20	V
V_{CEO}	Collector−to−Emitter Voltage	10	V
V_{EBO}	Emitter−to−Base Voltage	2	V
I_C	Collector Current	70	mA
P_C	Collector Dissipation	100	mW
Tj	Junction Temperature	150	°C
Tstg	Storage Temperature	−55 to +150	°C

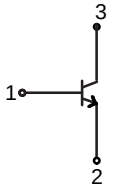
Stresses exceeding those listed in the Maximum Ratings table may damage the device. If any of these limits are exceeded, device functionality should not be assumed, damage may occur and reliability may be affected.

MARKING DIAGRAM



LN = Specific Device Code

ELECTRICAL CONNECTION



1: Base
2: Emitter
3: Collector

ORDERING INFORMATION

Device	Package	Shipping†
2SC5488A−TL−H	SOT−623 / SSFP (Pb−Free, Halide Free)	8000 / Tape & Reel

†For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specification Brochure, BRD8011/D.

Figure 1. h_{FE} − I_C

Figure 2. f_T − I_C

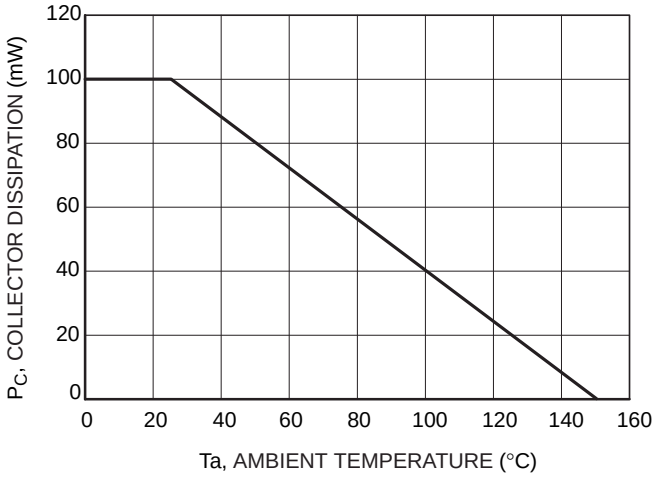


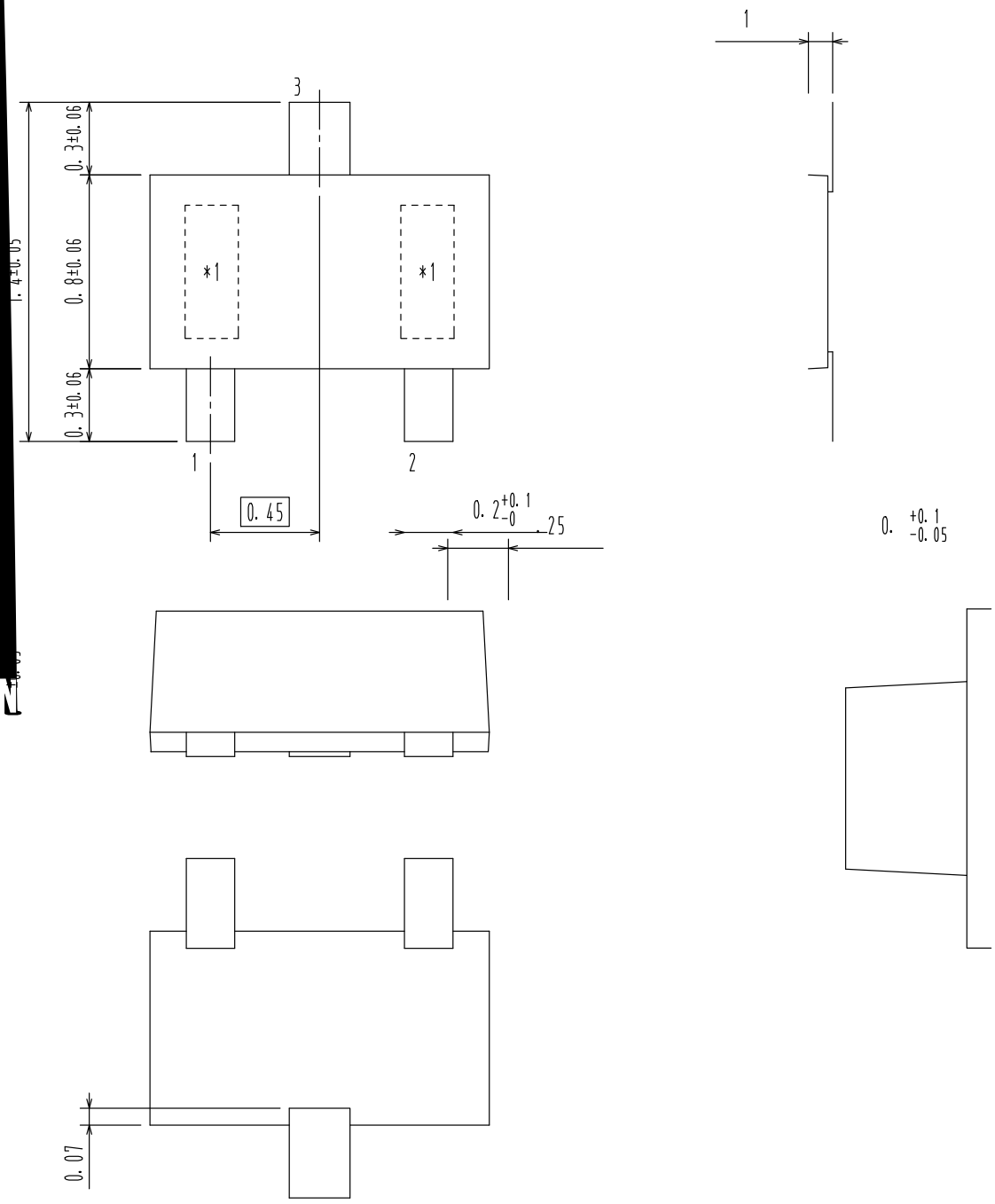
Figure 7. P_C − Ta

Land Pattern Example

Unit: mm

Figure 8. Land Pattern Example

SOT−623 / SSFP



DOCUMENT NUMBER:	**98AON67431E**	
DESCRIPTION:	**SOT−623 / SSFP**	**PAGE 1 OF 1**