

# NP062AM

## Silicon NPN epitaxial planar type

For digital circuits

### ■ Features

- Two elements incorporated into one package
- Suitable for high-density mounting and downsizing of the equipment
- Contribute to low power consumption

### ■ Basic Part Number

- UNR32AM × 2

### ■ Absolute Maximum Ratings $T_a = 25^\circ\text{C}$

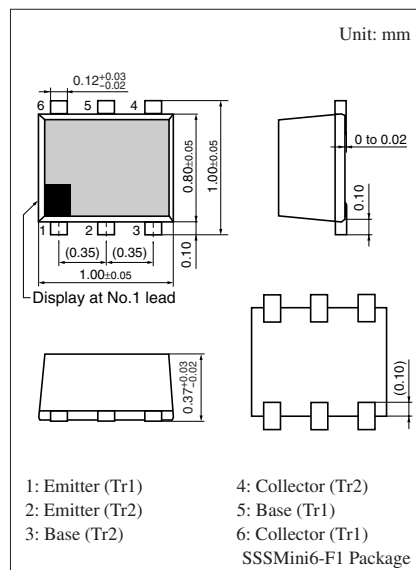
Parameter	Symbol	Rating	Unit
Collector-base voltage (Emitter open)	$V_{CBO}$	50	V
Collector-emitter voltage (Base open)	$V_{CEO}$	50	V
Collector current	$I_C$	80	mA
Total power dissipation	$P_T$	125	mW
Junction temperature	$T_j$	125	$^\circ\text{C}$
Storage temperature	$T_{stg}$	-55 to +125	$^\circ\text{C}$

### ■ Electrical Characteristics $T_a = 25^\circ\text{C} \pm 3^\circ\text{C}$

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Collector-base voltage (Emitter open)	$V_{CBO}$	$I_C = 10\ \mu\text{A}$ , $I_E = 0$	50			V
Collector-emitter voltage (Base open)	$V_{CEO}$	$I_C = 2\ \text{mA}$ , $I_B = 0$	50			V
Collector-base cutoff current (Emitter open)	$I_{CBO}$	$V_{CB} = 50\ \text{V}$ , $I_E = 0$			0.1	$\mu\text{A}$
Collector-emitter cutoff current (Base open)	$I_{CEO}$	$V_{CE} = 50\ \text{V}$ , $I_B = 0$			0.5	$\mu\text{A}$
Emitter-base cutoff current (Collector open)	$I_{EBO}$	$V_{EB} = 6\ \text{V}$ , $I_C = 0$			0.2	mA
Forward current transfer ratio	$h_{FE}$	$V_{CE} = 10\ \text{V}$ , $I_C = 5\ \text{mA}$	80			—
$h_{FE}$ Ratio *	$h_{FE(\text{Small/Large})}$	$V_{CE} = 10\ \text{V}$ , $I_C = 5\ \text{mA}$	0.50	0.99		—
Collector-emitter saturation voltage	$V_{CE(\text{sat})}$	$I_C = 10\ \text{mA}$ , $I_B = 0.3\ \text{mA}$			0.25	V
Output voltage high level	$V_{OH}$	$V_{CC} = 5\ \text{V}$ , $V_B = 0.5\ \text{V}$ , $R_L = 1\ \text{k}\Omega$	4.9			V
Output voltage low level	$V_{OL}$	$V_{CC} = 5\ \text{V}$ , $V_B = 2.5\ \text{V}$ , $R_L = 1\ \text{k}\Omega$			0.2	V
Input resistance	$R_1$		-30%	2.2	+30%	$\text{k}\Omega$
Resistance ratio	$R_1 / R_2$			0.047		—
Transition frequency	$f_T$	$V_{CB} = 10\ \text{V}$ , $I_E = -2\ \text{mA}$ , $f = 200\ \text{MHz}$		150		MHz

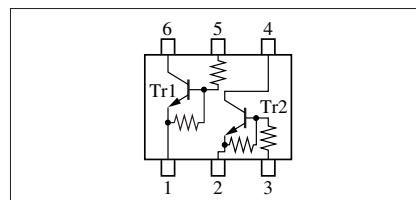
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.

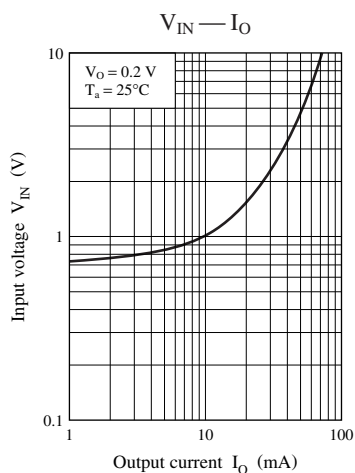
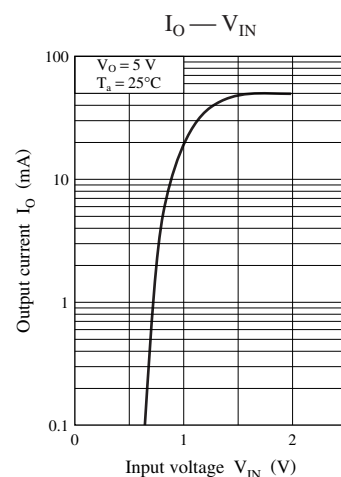
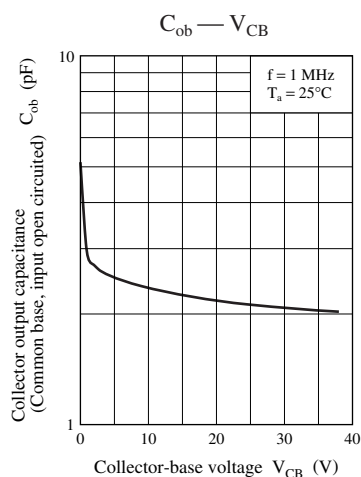
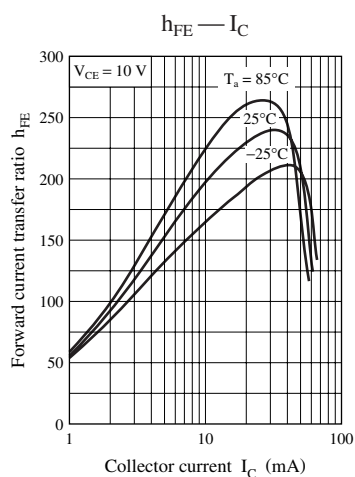
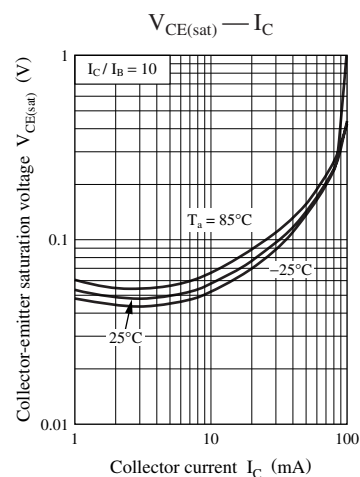
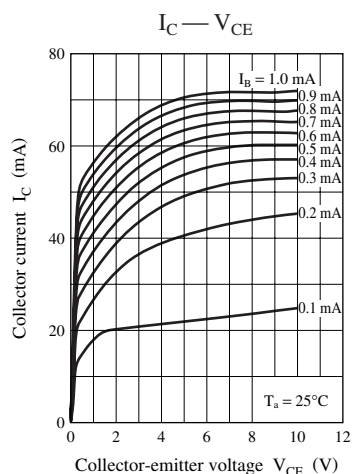
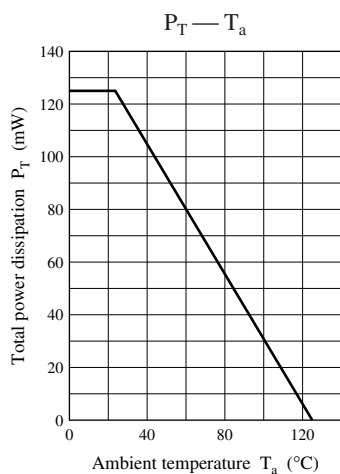
2. \*: Ratio between one and another



Marking Symbol: 3M

Internal Connection





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