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Panasonic

DRA2143X

Silicon PNP epitaxial planar type

For digital circuits
Complementary to DRC2143X

■ Features

- Contributes to miniaturization of sets, reduction of component count.
- Eco-friendly Halogen-free package

■ Packaging

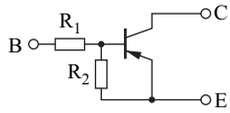
Embossed type (Thermo-compression sealing): 3000 pcs / reel (standard)

■ Package

- Code
  Mini3-G3-B
- Pin Name
  1: Base
  2: Emitter
  3: Collector

■ Marking Symbol: L6

■ Internal Connection



Resistance value	R_1	4.7	kΩ
	R_2	10	kΩ

■ Absolute Maximum Ratings $T_a = 25°C$

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	–100	mA
Total power dissipation	P_T	200	mW
Junction temperature	T_j	150	°C
Storage temperature	T_{stg}	–55 to +150	°C

■ Electrical Characteristics $T_a = 25°C \pm 3°C$

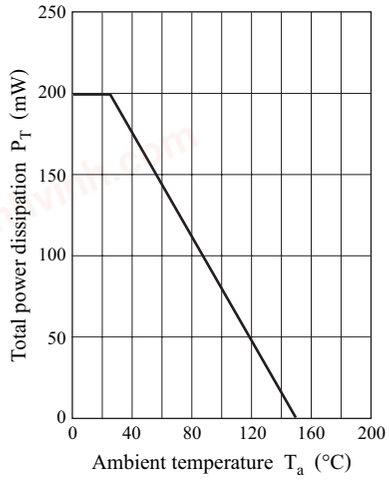
Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Collector-base voltage (Emitter open)	V_{CBO}	$I_C = -10$ µA, $I_E = 0$	–50			V
Collector-emitter voltage (Base open)	V_{CEO}	$I_C = -2$ mA, $I_B = 0$	–50			V
Collector-base cutoff current (Emitter open)	I_{CBO}	$V_{CB} = -50$ V, $I_E = 0$			– 0.1	µA
Collector-emitter cutoff current (Base open)	I_{CEO}	$V_{CE} = -50$ V, $I_B = 0$			– 0.5	µA
Emitter-base cutoff current (Collector open)	I_{EBO}	$V_{EB} = -6$ V, $I_C = 0$			–1.0	mA
Forward current transfer ratio	h_{FE}	$V_{CE} = -10$ V, $I_C = -5$ mA	30			—
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = -10$ mA, $I_B = -0.5$ mA			– 0.25	V
Input voltage (ON)	$V_{I(on)}$	$V_{CE} = -0.2$ V, $I_C = -5$ mA	–1.7			V
Input voltage (OFF)	$V_{I(off)}$	$V_{CE} = -5$ V, $I_C = -100$ µA			– 0.6	V
Input resistance	R_1		–30%	4.7	+30%	kΩ
Resistance ratio	R_1 / R_2		0.37	0.47	0.57	—

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

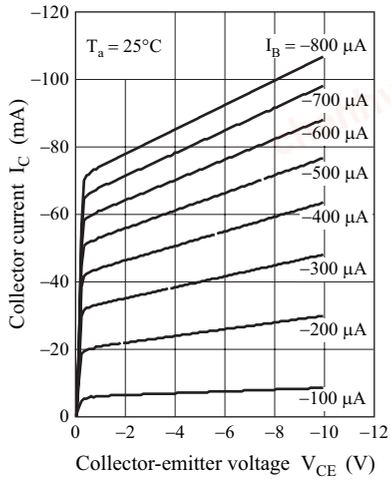
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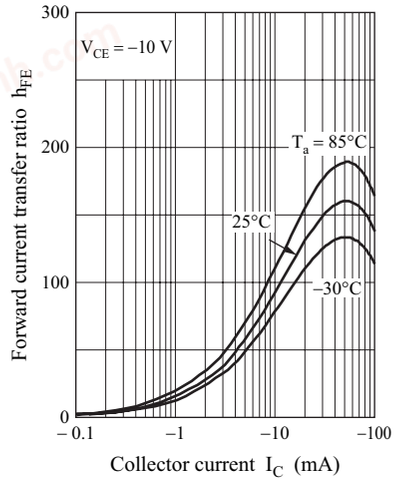
P_T — T_a



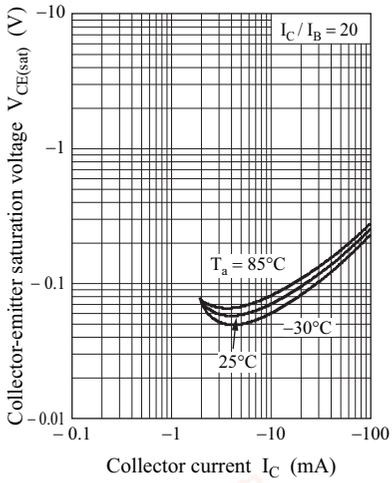
I_C — V_{CE}



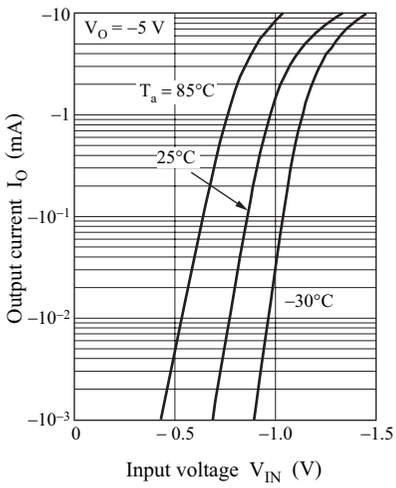
h_{FE} — I_C



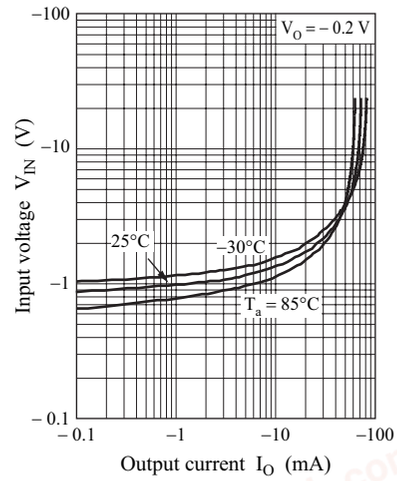
$V_{CE(sat)}$ — I_C



I_O — V_{IN}



V_{IN} — I_O

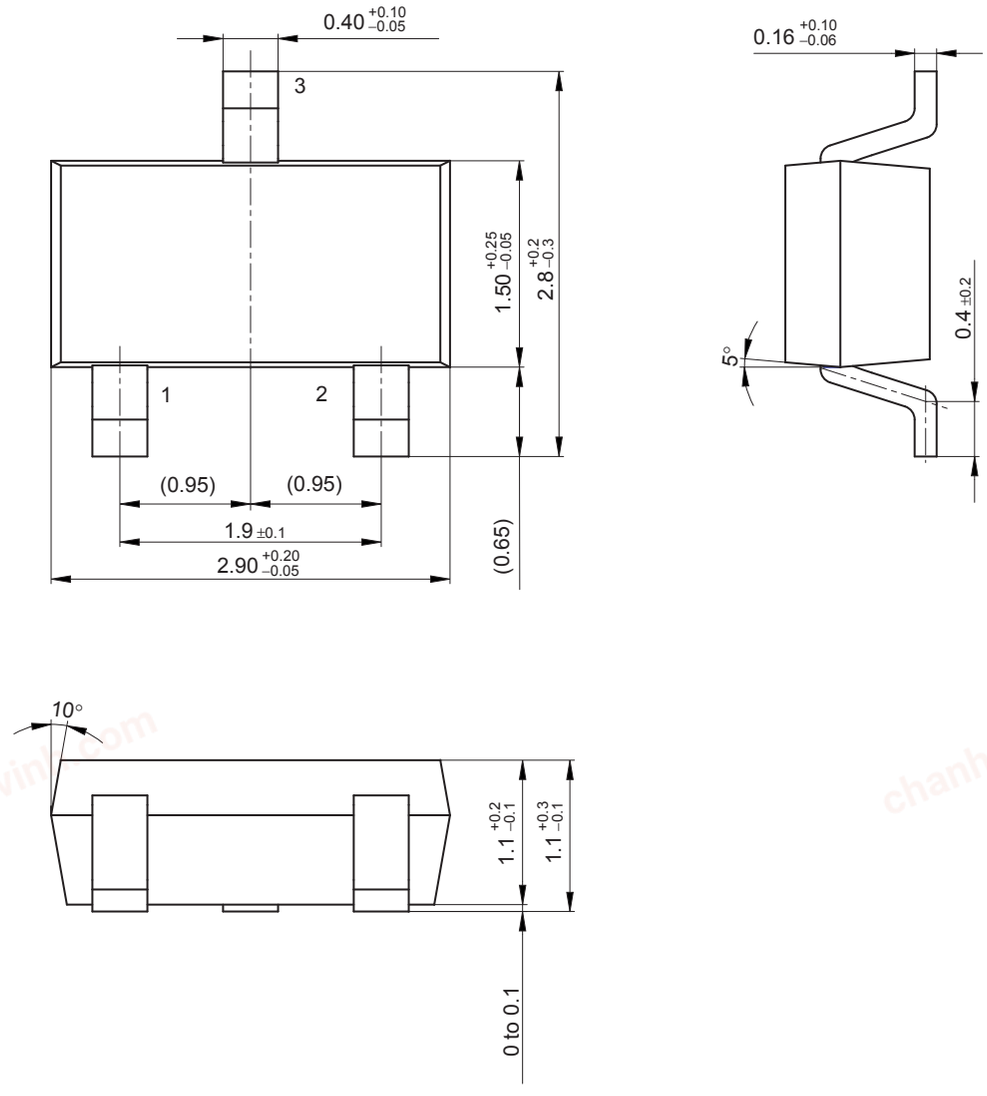


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Mini3-G3-B

Unit: mm



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