XN04556 (XN4556)

NPN epitaxial planer transistor

For amplification of the low frequency

Features

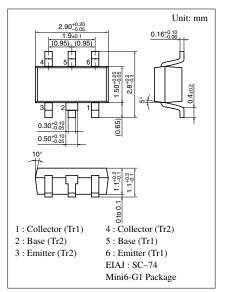
- Two elements incorporated into one package.
- Reduction of the mounting area and assembly cost by one half.

Basic Part Number of Element

• 2SD1149 \times 2 elements

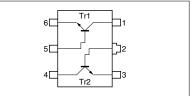
Parameter		Symbol	Ratings	Unit
Rating of element	Collector to base voltage	V _{CBO}	100	V
	Collector to emitter voltage	V _{CEO}	100	V
	Emitter to base voltage	V_{EBO}	15	V
	Collector current	I _C	20	mA
	Peak collector current	I _{CP}	50	mA
Overall	Total power dissipation	P _T	300	mW
	Junction temperature	Tj	150	°C
	Storage temperature	T _{stg}	-55 to +150	°C

Absolute Maximum Ratings (Ta=25°C)



Marking Symbol: EP

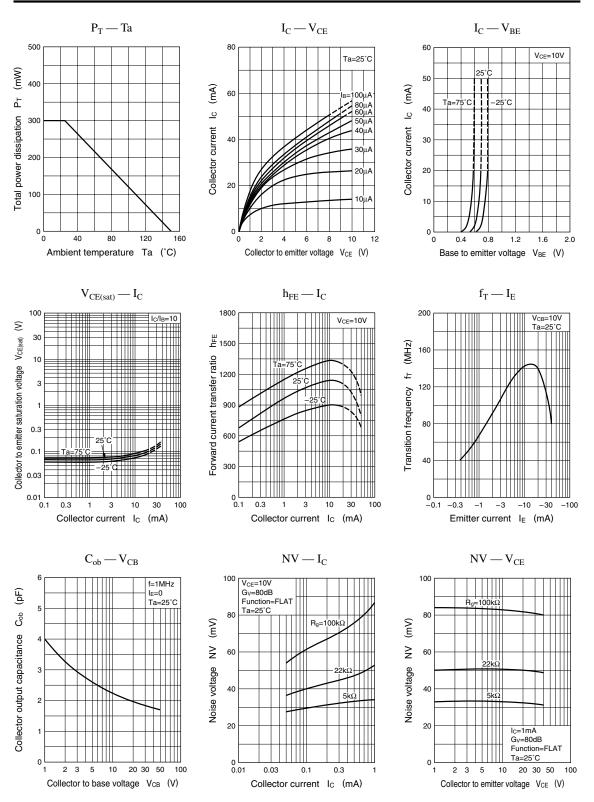
Internal Connection



Parameter Symbol Conditions min typ max Unit v 100 Collector to base voltage V_{CBO} $I_{C} = 10 \mu A, I_{E} = 0$ $I_{C} = 1 m A, I_{B} = 0$ V Collector to emitter voltage V_{CEO} 100 Emitter to base voltage $I_E = 10 \mu A, I_C = 0$ 15 V V_{EBO} $V_{CB} = 60V, I_E = 0$ I_{CBO} 0.1 μΑ Collector cutoff current $V_{CE} = 60V, I_B = 0$ 1.0 I_{CEO} μΑ $V_{CE} = 10V, I_C = 2mA$ 2000 Forward current transfer ratio 400 h_{FE} Collector to emitter saturation voltage $I_C = 10mA$, $I_B = 1mA$ 0.05 0.2 V V_{CE(sat)} $V_{CE} = 10V, I_{C} = 1mA, G_{V} = 80dB$ Noise voltage NV 80 mV $R_g = 100 K\Omega$, Function = FLAT Transition frequency \mathbf{f}_{T} $V_{CB} = 10V, I_E = -2mA, f = 200MHz$ 150 MHz

Electrical Characteristics (Ta=25°C)

Note) The Part number in the Parenthesis shows conventional part number.



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