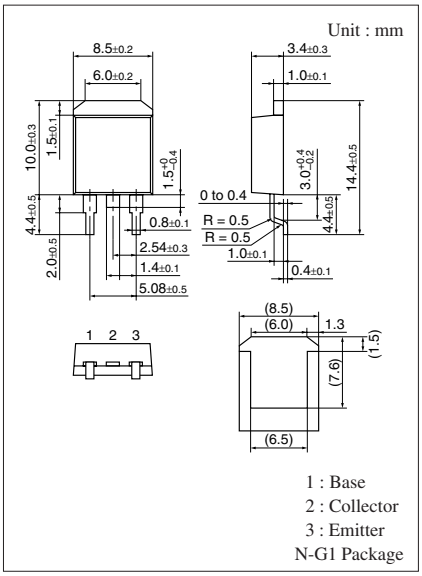
2SB0928 (2SB928), 2SB0928A (2SB928A)

www.DataSheet4U.com

Silicon PNP epitaxial planar type

For Power amplification
For TV vertical deflection output
Complementary to 2SD1250 and 2SD1250A



Note) Self-supported type package is also prepared

■ Features

- High collector-emitter voltage (Base open) V_{CEO}
- High collector power dissipation P_C
- N type package enabling direct soldering of the radiating fin to the printed circuit board, etc. of small electronic equipment.

■ Absolute Maximum Ratings $T_C = 25°C$

Parameter		Symbol	Rating	Unit
Collector-base voltage (Emitter open)		V_{CBO}	−200	V
Collector-emitter voltage (Base open)	2SB0928	V_{CEO}	−150	V
	2SB0928A		−180	
Emitter-base voltage (Collector open)		V_{EBO}	−6	V
Collector current		I_C	−2	A
Peak collector current		I_{CP}	−3	A
Collector power dissipation		P_C	30	W
	$T_a = 25°C$		1.3	
Junction temperature		T_j	150	°C
Storage temperature		T_{stg}	−55 ~ +150	°C

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

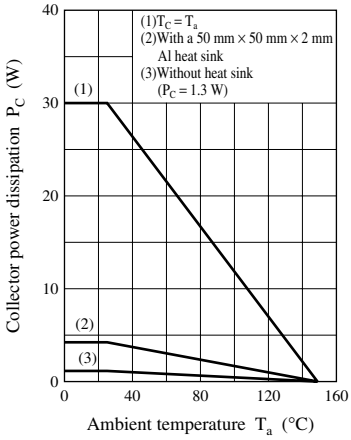
Parameter		Symbol	Conditions	Min	Typ	Max	Unit
Collector-base voltage (Emitter open)		V_{CBO}	$I_C = -500$ µA, $I_E = 0$	−200			V
Collector-emitter voltage (Base open)	2SB0928	V_{CEO}	$I_C = -5$ mA, $I_B = 0$	−150			V
	2SB0928A			−180			
Emitter-base voltage (Collector open)		V_{EBO}	$I_E = -500$ µA, $I_C = 0$	−6			V
Collector-base cutoff current (Emitter open)		I_{CBO}	$V_{CB} = -200$ V, $I_E = 0$			−50	µA
Emitter-base cutoff current (Collector open)		I_{EBO}	$V_{EB} = -4$ V, $I_C = 0$			−50	µA
Forward current transfer ratio		h_{FE1} *	$V_{CE} = -10$ V, $I_C = -150$ mA	60		240	—
		h_{FE2}	$V_{CE} = -10$ V, $I_C = -400$ mA	50			
Base-emitter voltage		V_{BE}	$V_{CE} = -10$ V, $I_C = -400$ mA			−1.0	V
Collector-emitter saturation voltage		$V_{CE(sat)}$	$I_C = -500$ mA, $I_B = -50$ mA			−1.0	V
Transition frequency		f_T	$V_{CE} = -10$ V, $I_C = -0.5$ A, f = 10 MHz		40		MHz

Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.
2. *: Rank classification

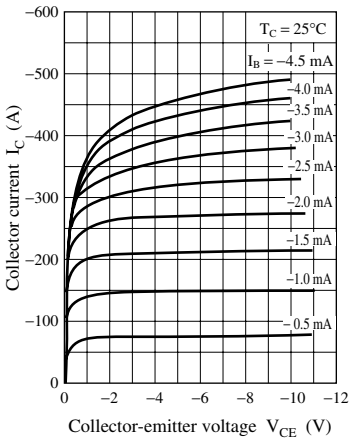
Rank	Q	P
h_{FE1}	60 to 140	100 to 240

Note) The part numbers in the parenthesis show conventional part number.

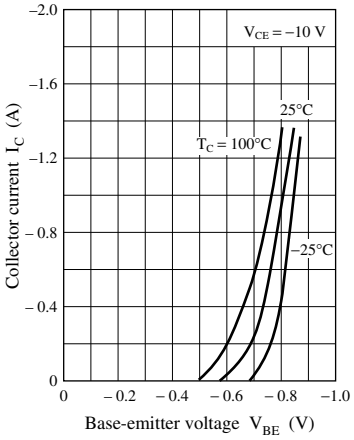
P_C — T_a



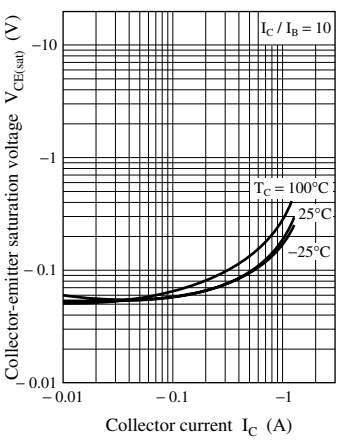
I_C — V_{CE}



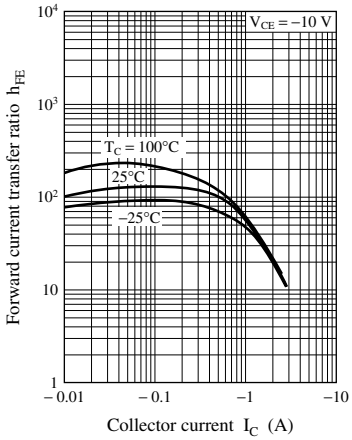
I_C — V_{BE}



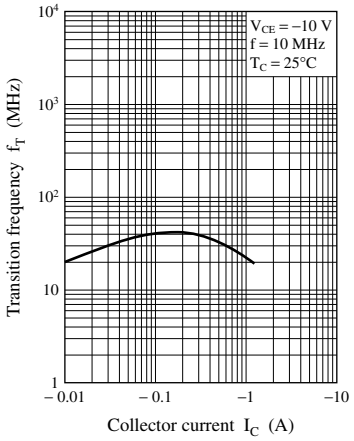
$V_{CE(sat)}$ — I_C



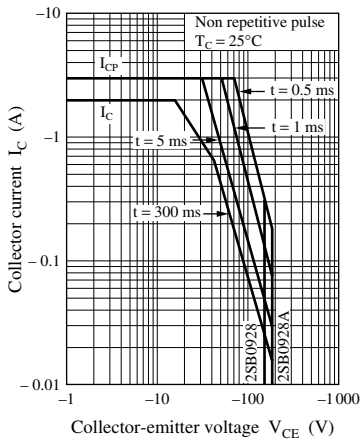
h_{FE} — I_C



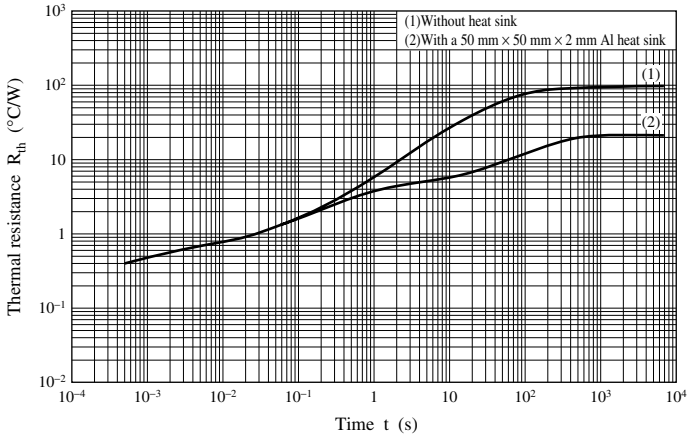
f_T — I_C



Safe operation area



R_{th} — t



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