2SB0792

Silicon PNP epitaxial planar type

For high breakdown voltage low-noise amplification

Features

- High collector-emitter voltage (Base open) V_{CEO}
- · Low noise voltage NV
- Mini type package, allowing downsizing of the equipment and automatic insertion through the tape packing.

Package

- Code
- Mini3-G1 Pin Name
 - 1. Base
 - 2. Emitter

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

Parameter	Symbol	Rating	Unit					
Collector-base voltage (Emitter open)	V _{CBO}	-150	V					
Collector-emitter voltage (Base open)	V _{CEO}	-150	V					
Emitter-base voltage (Collector open)	V _{EBO}	-5	V					
Collector current	I _C	-50	mA					
Peak collector current	I _{CP}	-100	mA					
Collector power dissipation	P _C	200	mW					
Junction temperature	Tj	150	°C					
Storage temperature	T _{stg}	-55 to +150	°C					
Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$								

- 3. Collector
- Marking Symbol: I

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

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector-emitter voltage (Base open)	V _{CEO}	$I_{\rm C} = -100 \ \mu {\rm A}, I_{\rm B} = 0$	-150			V
Emitter-base voltage (Collector open)	V _{EBO}	$I_{\rm E} = -10 \ \mu A, I_{\rm C} = 0$	-5			V
Collector-base cutoff current (Emitter open)	I _{CBO}	$V_{CB} = -100 \text{ V}, I_E = 0$,.Υ		-1	μΑ
Forward current transfer ratio *	h _{FE}	$V_{\rm CE} = -5$ V, $I_{\rm C} = -10$ mA	130		450	
Collector-emitter saturation voltage	V _{CE(sat)}	$I_{\rm C} = -30 \text{ mA}, I_{\rm B} = -3 \text{ mA}$			-1	V
Transition frequency	f_{T}	$V_{CB} = -10 \text{ V}, I_E = 10 \text{ mA}, f = 200 \text{ MHz}$		200		MHz
Collector output capacitance (Common base, input open circuited)	C _{ob}	$V_{CB} = -10 \text{ V}, I_E = 0, f = 1 \text{ MHz}$		4		pF
Noise voltage	NV	$V_{CB} = -10 \text{ V}, I_C = -1 \text{ mA}, G_V = 80 \text{ dB},$ $R_g = 100 \text{ k}\Omega, \text{ Function} = \text{FLAT}$		150		mV

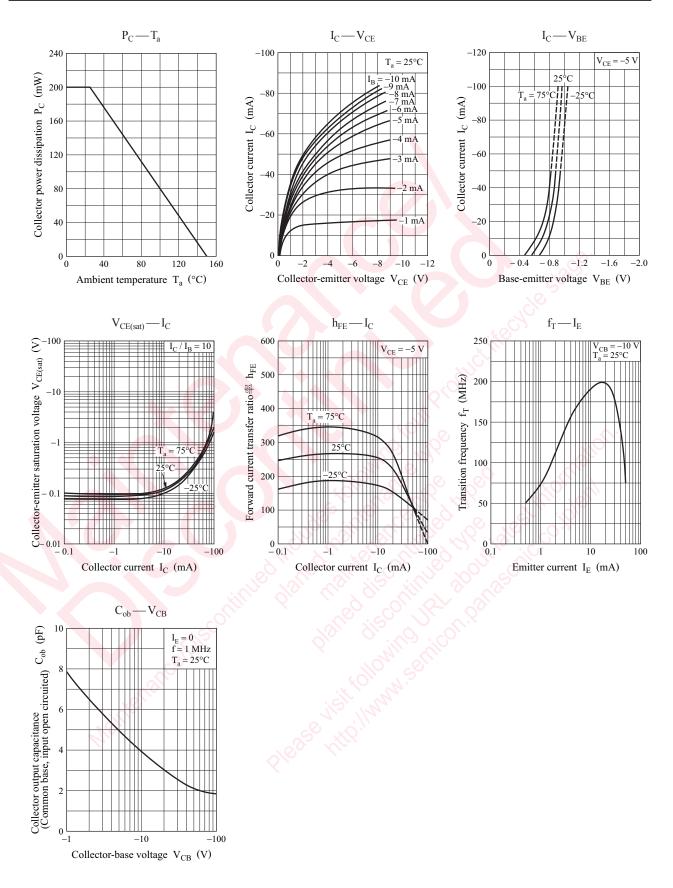
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.

2. *: Rank classification

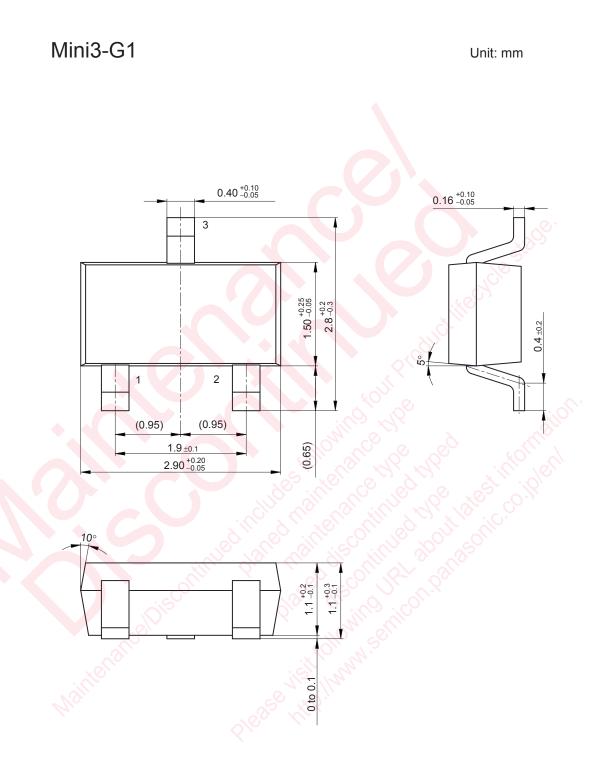
Rank	R	S	Т
$h_{\rm FE}$	130 to 220	185 to 330	260 to 450
Merking symbol	IR	IS	IT

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