2SB1463

Silicon PNP epitaxial planar type

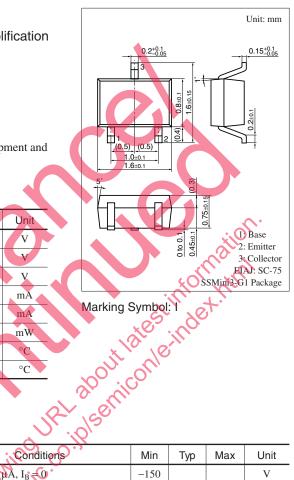
For high breakdown voltage low-frequency amplification Complementary to 2SD2240

■ Features

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

■ Absolute Maximum Ratings $T_a = 25$ °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	$I_{\rm C}$	-50	mA	
Peak collector current	I _{CP}	100	mA	
Collector power dissipation	P _C	125	mW	
Junction temperature	Tj	125	°C	
Storage temperature	T_{stg}	-55 to +125	°C	



■ Electrical Characteristics $T_a = 25$ °C ± 3 °C

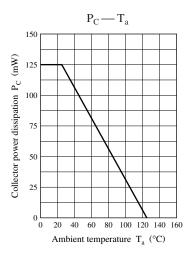
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector-emitter voltage (Base open)	V _{CEO}	$I_C = -100 \mu A, I_B = 0$	-150			V
Emitter-base voltage (Collector open)	V _{EBO}	$I_{\rm H} = 10 \mu A, I_{\rm O} = 0$	-5			V
Collector-base cutoff current (Emitter open)	I_{CBO}	$V_{CB} = -100 \text{ V}, I_E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

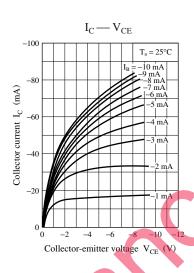
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.

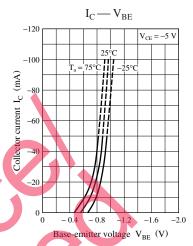
2. *: Rank classification

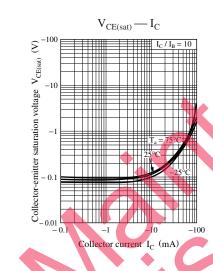
Rank	R	S	Т
h_{FE}	130 to 220	185 to 330	260 to 450

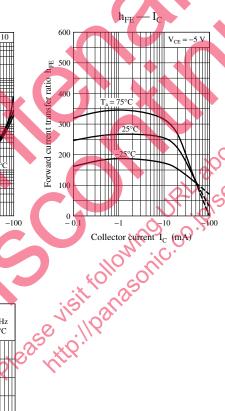
Panasonic 2SB1463

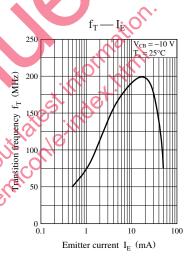


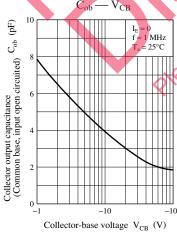












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