2SD0601A (2SD601A)

Silicon NPN epitaxial planer type

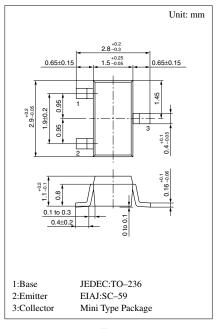
For general amplification
Complementary to 2SB0709A (2SB709A)

Features

- High foward current transfer ratio h_{FE}.
- Low collector to emitter saturation voltage V_{CE(sat)}.
- Mini type package, allowing downsizing of the equipment and automatic insertion through the tape packing and the magazine packing.

Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Ratings	Unit
Collector to base voltage	V_{CBO}	60	V
Collector to emitter voltage	V_{CEO}	50	V
Emitter to base voltage	V _{EBO}	7	V
Peak collector current	I_{CP}	200	mA
Collector current	I_{C}	100	mA
Collector power dissipation	P_{C}	200	mW
Junction temperature	T _j	150	°C
Storage temperature	T_{stg}	−55 ~ +150	°C



Marking symbol: Z

■ Electrical Characteristics (Ta=25°C)

Parameter	Symbol	Conditions	min	typ	max	Unit
Collector cutoff current	I_{CBO}	$V_{CB} = 20V, I_{E} = 0$			0.1	μА
	I _{CEO}	$V_{CE} = 10V, I_{B} = 0$			100	μА
Collector to base voltage	V _{CBO}	$I_{\rm C} = 10\mu{\rm A}, I_{\rm E} = 0$	60			V
Collector to emitter voltage	V _{CEO}	$I_C = 2mA, I_B = 0$	50			V
Emitter to base voltage	V _{EBO}	$I_E = 10\mu A, I_C = 0$	7			V
Forward current transfer ratio	h _{FE1} *	$V_{CE} = 10V, I_{C} = 2mA$	160		460	
	h _{FE2}	$V_{CE} = 2V, I_{C} = 100mA$	90			
Collector to emitter saturation voltage	V _{CE(sat)}	$I_C = 100 \text{mA}, I_B = 10 \text{mA}$		0.1	0.3	V
Transition frequency	f_T	$V_{CB} = 10V, I_E = -2mA, f = 200MHz$		150		MHz
Noise voltage	NV	$V_{CE} = 10V, I_{C} = 1mA, G_{V} = 80dB$	110			mV
		$R_g = 100k\Omega$, Function = FLAT				
Collector output capacitance	C _{ob}	$V_{CB} = 10V, I_{E} = 0, f = 1MHz$		3.5		pF

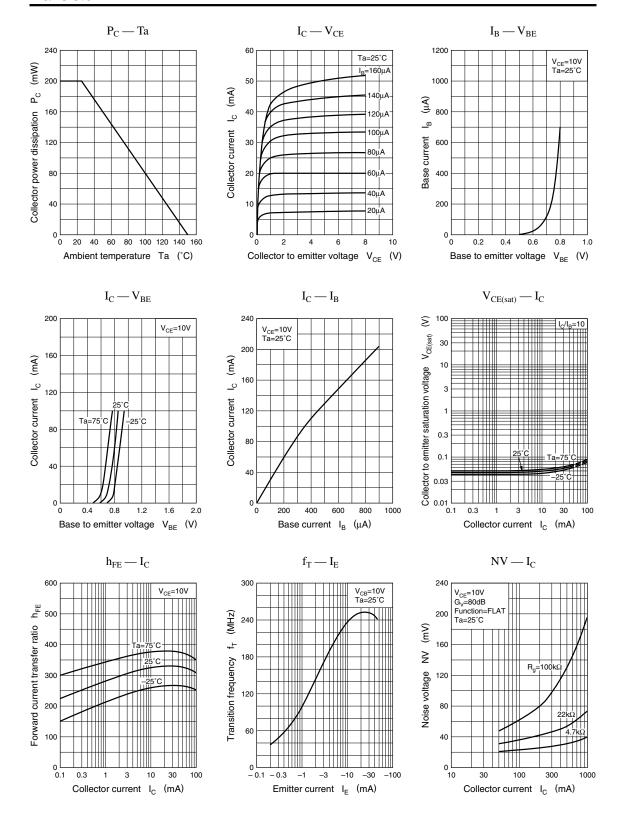
*h_{FE1} Rank classification

Rank	Q	R	S
h _{FE1}	160 ~ 260	210 ~ 340	290 ~ 460
Marking Symbol	ZQ	ZR	ZS

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

Panasonic 1

Transistor 2SD0601A



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