2SD1819A

Silicon NPN epitaxial planer type

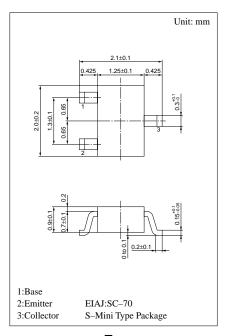
For general amplification Complementary to 2SB1218A

Features

- High foward current transfer ratio h_{FE}.
- Low collector to emitter saturation voltage V_{CE(sat)}.
- S-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}	150	mW
Junction temperature	T_{j}	150	°C
Storage temperature	T_{stg}	−55 ~ +150	°C



Marking symbol : Z

Electrical Characteristics (Ta=25°C)

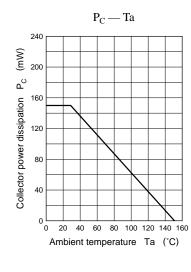
Parameter	Symbol	Conditions	min	typ	max	Unit
Collector cutoff current	I_{CBO}	$V_{CB} = 20V, I_{E} = 0$			0.1	μA
	I _{CEO}	$V_{CE} = 10V, I_{B} = 0$			100	μΑ
Collector to base voltage	V _{CBO}	$I_{\rm C} = 10 \mu A, I_{\rm E} = 0$	60			V
Collector to emitter voltage	V _{CEO}	$I_C = 2mA$, $I_B = 0$	50			V
Emitter to base voltage	V _{EBO}	$I_{\rm E} = 10 \mu A, I_{\rm C} = 0$	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)}	$I_{\rm C} = 100 {\rm mA}, I_{\rm B} = 10 {\rm mA}$		0.1	0.3	V
Transition frequency	f_{T}	$V_{CB} = 10V, I_E = -2mA, f = 200MHz$		150		MHz
Collector output capacitance	C _{ob}	$V_{CB} = 10V, I_E = 0, f = 1MHz$		3.5		pF

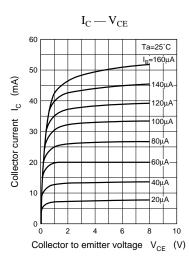
*hFE1 Rank classification

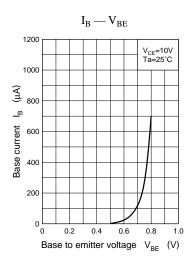
Rank	Q	R	S
h_{FE1}	160 ~ 260	210 ~ 340	290 ~ 460
Marking Symbol	ZQ	ZR	ZS

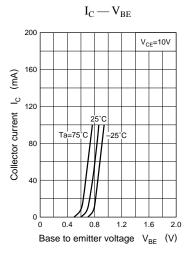
Panasonic 1

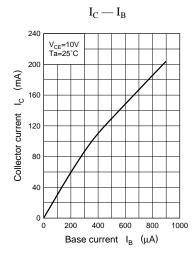
Transistor 2SD1819A

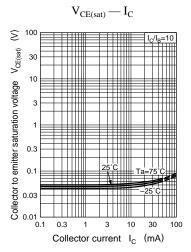


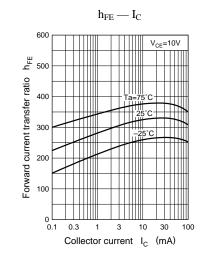


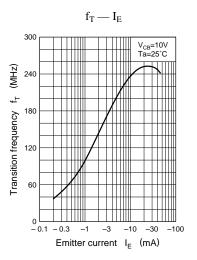












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