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Transistor

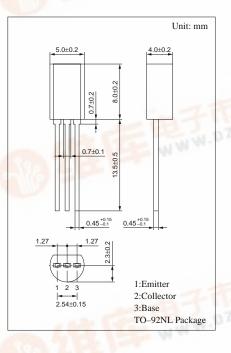
2SC3939

Silicon NPN epitaxial planer type

For low-frequency driver amplification W.DZSC.COM Complementary to 2SA1533

- Features
- High collector to emitter voltage V_{CEO}.
- Optimum for the driver stage of a low-frequency and 25 to 30W output amplifier.
- Allowing supply with the radial taping.

Parameter	Symbol	Ratings	Unit	
Collector to base voltage	V _{CBO}	80	V	
Collector to emitter voltage	V _{CEO}	80	V	
Emitter to base voltage	V _{EBO}	5	V	
Peak collector current	I _{CP}	1	А	
Collector current	I _C	0.5	А	
Collector power dissipation	P _C	1	W	
Junction temperature	Tj	150	°C	
Storage temperature	T _{stg}	-55 ~ +150	°C	
Storage tompolatale	- stg	-1.7	50.00	



Electrical Characteristics (Ta=25°C)

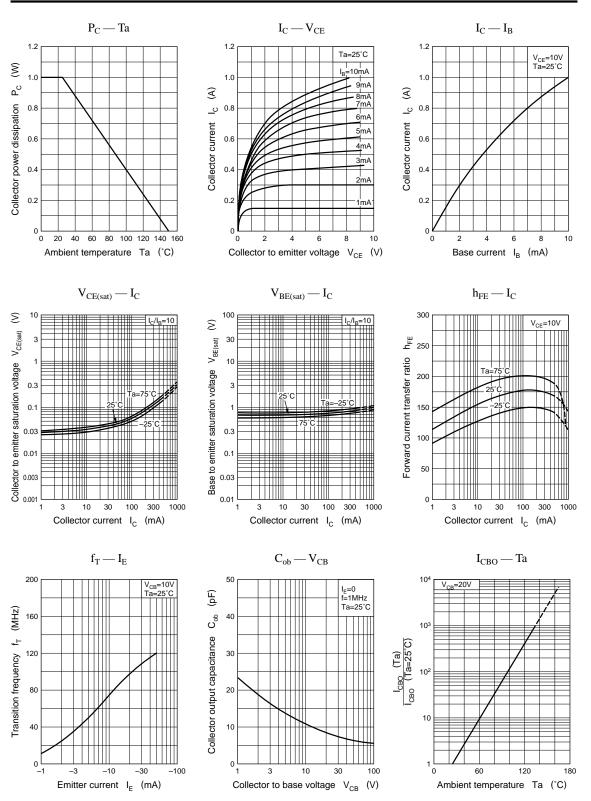
Parameter	Symbol	Conditions	min	typ	max	Unit
Collector cutoff current	I _{CBO}	$V_{CB} = 20V, I_E = 0$			0.1	μΑ
Collector to base voltage	V _{CBO}	$I_C=10\mu A,I_E=0$	80			V
Collector to emitter voltage	V _{CEO}	$I_{\rm C} = 100 \mu A, I_{\rm B} = 0$	80		8	V
Emitter to base voltage	V _{EBO}	$I_E = 10 \mu A, I_C = 0$	5		Y	V
Forward current transfer ratio	h _{FE1} *1	$V_{CE} = 10V, I_C = 150mA^{*2}$	130		330	
	h _{FE2}	$V_{CE} = 5V, I_C = 500 \text{mA}^{*2}$	50	100		
Collector to emitter saturation voltage	V _{CE(sat)}	$I_{\rm C} = 300 {\rm mA}, I_{\rm B} = 30 {\rm mA}^{*2}$		0.2	0.4	V
Base to emitter saturation voltage	V _{BE(sat)}	$I_{\rm C} = 300 {\rm mA}, I_{\rm B} = 30 {\rm mA}^{*2}$		0.85	1.2	V
Transition frequency	f _T	$V_{CB} = 10V, I_E = -50mA, f = 200MHz$		120		MHz
Collector output capacitance	C _{ob}	$V_{CB} = 10V, I_E = 0, f = 1MHz$		11	20	pF

*2 Pulse measurement

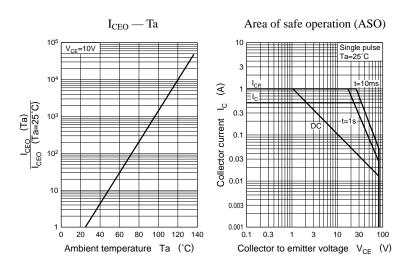
¹h_{FE1} Rank classification



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