2SC3187

Silicon NPN triple diffusion planar type

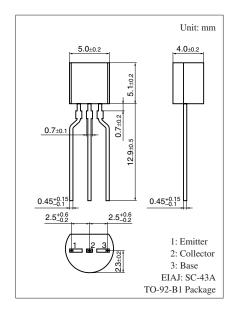
For small TV video output

■ Features

- High collector-emitter voltage (Base open) V_{CEO}
- \bullet Small collector output capacitance (Common base, input open circuited) C_{ob}

■ Absolute Maximum Ratings $T_a = 25$ °C

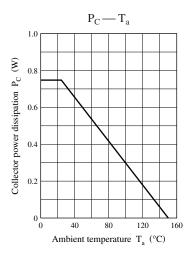
Parameter	Symbol	Rating	Unit	
Collector-base voltage (Emitter open)	V _{CBO}	300	V	
Collector-emitter voltage (Base open)	V _{CEO}	300	V	
Emitter-base voltage (Collector open)	V_{EBO}	7	V	
Collector current	I_C	100	mA	
Peak collector current	I_{CP}	200	mA	
Collector power dissipation	P_{C}	750	mW	
Junction temperature	T_j	150	°C	
Storage temperature	T _{stg}	-55 to +150	°C	

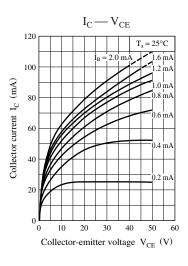


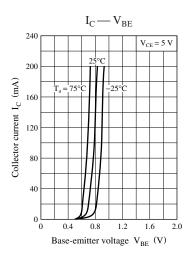
\blacksquare Electrical Characteristics $~T_a = 25 ^{\circ}C \pm 3 ^{\circ}C$

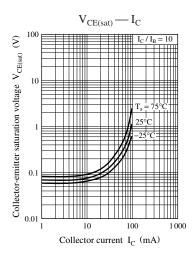
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector-base voltage (Emitter open)	V _{CBO}	$I_{\rm C} = 10 \; \mu \text{A}, \; I_{\rm E} = 0$	300			V
Collector-emitter voltage (Base open)	V _{CEO}	$I_C = 100 \ \mu A, I_B = 0$	300			V
Emitter-base voltage (Collector open)	V_{EBO}	$I_E = 10 \ \mu A, \ I_C = 0$	7			V
Base-emitter voltage	V_{BE}	$V_{CE} = 10 \text{ V}, I_{C} = 30 \text{ mA}$			1.2	V
Forward current transfer ratio	h_{FE}	$V_{CE} = 50 \text{ V}, I_{C} = 5 \text{ mA}$	50		250	_
Collector-emitter saturation voltage	V _{CE(sat)}	$I_C = 30 \text{ mA}, I_B = 3 \text{ mA}$			1.5	V
Transition frequency	f_T	$V_{CB} = 30 \text{ V}, I_{E} = -20 \text{ mA}, f = 200 \text{ MHz}$	70	140		MHz
Collector output capacitance	C _{ob}	$V_{CB} = 30 \text{ V}, I_E = 0, f = 1 \text{ MHz}$		1.9		pF
(Common base, input open circuited)						

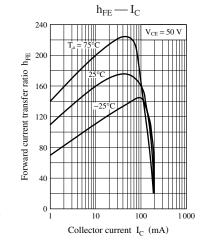
Note) Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.

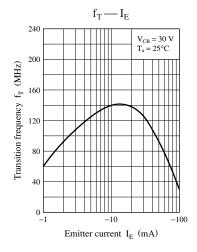


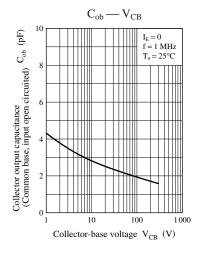


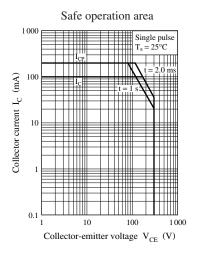












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