Transistor **Panasonic** 

# 2SC3187

### Silicon NPN triple diffusion planer type

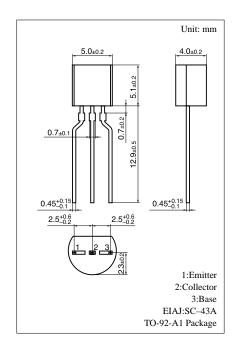
#### For small TV video output

#### Features

- ullet High collector to emitter voltage  $V_{CEO}$ .
- Small collector output capacitance C<sub>ob</sub>.

#### Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Ratings	Unit
Collector to base voltage	$V_{CBO}$	300	V
Collector to emitter voltage	$V_{CEO}$	300	V
Emitter to base voltage	$V_{\rm EBO}$	7	V
Peak collector current	$I_{CP}$	200	mA
Collector current	$I_{C}$	100	mA
Collector power dissipation	$P_{C}$	750	mW
Junction temperature	$T_{j}$	150	°C
Storage temperature	$T_{stg}$	<b>−55 ~ +150</b>	°C

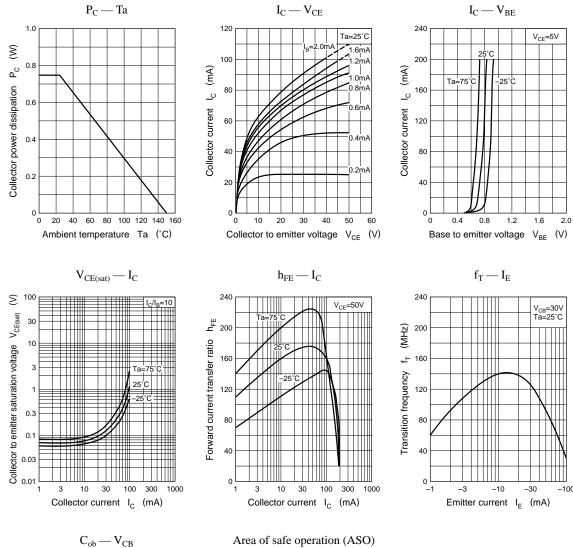


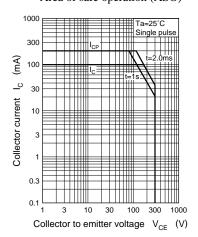
#### Electrical Characteristics (Ta=25°C)

Parameter	Symbol	Conditions	min	typ	max	Unit
Collector to base voltage	V <sub>CBO</sub>	$I_{\rm C} = 10\mu{\rm A},I_{\rm E} = 0$	300			V
Collector to emitter voltage	V <sub>CEO</sub>	$I_{\rm C} = 100 \mu {\rm A},  I_{\rm B} = 0$	300			V
Emitter to base voltage	V <sub>EBO</sub>	$I_E = 10\mu A, I_C = 0$	7			V
Forward current transfer ratio	h <sub>FE</sub>	$V_{CE} = 50V, I_{C} = 5mA$	50		250	
Base to emitter voltage	V <sub>BE</sub>	$V_{CE} = 10V, I_{C} = 30mA$			1.2	V
Collector to emitter saturation voltage	V <sub>CE(sat)</sub>	$I_{\rm C} = 30 {\rm mA}, I_{\rm B} = 3 {\rm mA}$			1.5	V
Transition frequency	$f_T$	$V_{CB} = 30V, I_{E} = -20mA, f = 200MHz$	70	140		MHz
Collector output capacitance	C <sub>ob</sub>	$V_{CB} = 30V, I_{E} = 0, f = 1MHz$		1.9		pF

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