# 2SC3063

# Silicon NPN triple diffusion planar type

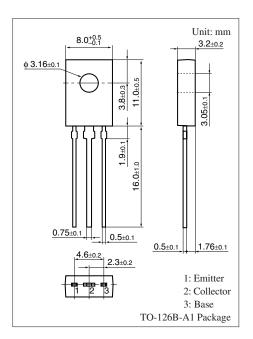
### For TV video output amplification

#### ■ Features

- High collector-emitter voltage (Base open) V<sub>CEO</sub>
- $\bullet$  Small collector output capacitance (Common base, input open circuited)  $C_{ob}$
- TO-126B package which requires no insulation plate for installation to the heat sink

### ■ Absolute Maximum Ratings $T_a = 25$ °C

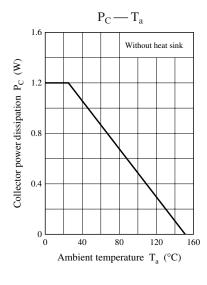
Parameter	Symbol	Rating	Unit	
Collector-base voltage (Emitter open)	V <sub>CBO</sub>	300	V	
Collector-emitter voltage (Base open)	V <sub>CEO</sub>	300	V	
Emitter-base voltage (Collector open)	$V_{EBO}$	7	V	
Collector current	$I_C$	100	mA	
Peak collector current	$I_{CP}$	200	mA	
Collector power dissipation	P <sub>C</sub>	1.2	W	
Junction temperature	$T_{j}$	150	°C	
Storage temperature	T <sub>stg</sub>	-55 to +150	°C	

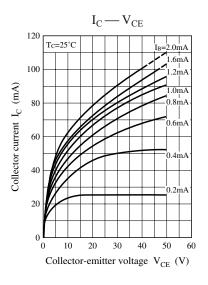


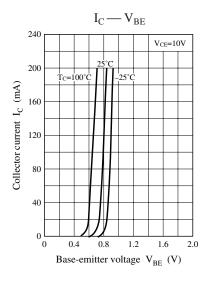
## ■ Electrical Characteristics $T_a = 25$ °C $\pm 3$ °C

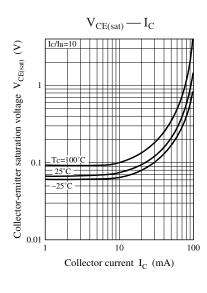
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector-base voltage (Emitter open)	V <sub>CBO</sub>	$I_C = 10 \ \mu A, I_E = 0$	300			V
Collector-emitter voltage (Base open)	V <sub>CEO</sub>	$I_C = 0.1 \text{ mA}, I_B = 0$	300			V
Emitter-base voltage (Collector open)	$V_{EBO}$	$I_E = 10 \ \mu A, I_C = 0$	7			V
Base-emitter voltage	V <sub>BE</sub>	$V_{CE} = 10 \text{ V}, I_{C} = 30 \text{ mA}$			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 <sub>CE(sat)</sub>	$I_C = 30 \text{ mA}, I_B = 3 \text{ mA}$			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 <sub>ob</sub>	$V_{CB} = 30 \text{ V}, I_{E} = 0, f = 1 \text{ MHz}$		2.4		pF
(Common base, input open circuited)						

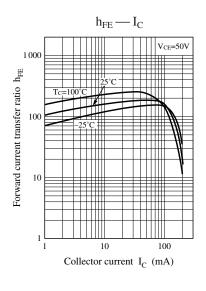
Note) Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.

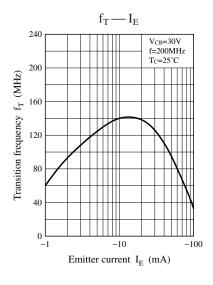


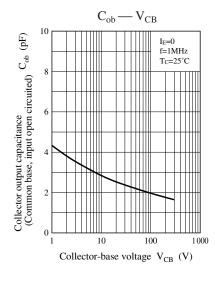


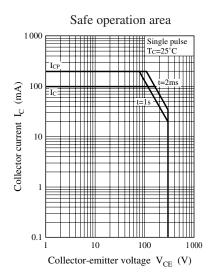












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