



SANYO Semiconductors

## DATA SHEET

NPN Triple Diffused Planar Silicon Transistor

# 2SC4217 — Color TV Chroma Output and Audio Output Applications

## Features

- High breakdown voltage ( $V_{CEO} \geq 300V$ ).
- Micaless package facilitating easy mounting.

## Specifications

Absolute Maximum Ratings at  $T_a = 25^\circ C$ 

Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	$V_{CBO}$		300	V
Collector-to-Emitter Voltage	$V_{CEO}$		300	V
Emitter-to-Base Voltage	$V_{EBO}$		6	V
Collector Current	$I_C$		200	mA
Collector Current (Pulse)	$I_{CP}$		400	mA
Collector Dissipation	PC	$T_c = 25^\circ C$	1.5	W
			10	W
Junction Temperature	$T_J$		150	$^\circ C$
Storage Temperature	$T_{stg}$		-55 to +150	$^\circ C$

Electrical Characteristics at  $T_a = 25^\circ C$ 

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Collector Cutoff Current	$I_{CBO}$	$V_{CB} = 200V, I_E = 0A$			0.1	$\mu A$
Emitter Cutoff Current	$I_{EBO}$	$V_{EB} = 5V, I_C = 0A$			0.1	$\mu A$
DC Current Gain	$h_{FE}$	$V_{CE} = 10V, I_C = 10mA$	40*		200*	

Continued on next page.

\* : The 2SC4217 is classified by 10mA  $h_{FE}$  as follows:

Rank	C	D	E
$h_{FE}$	40 to 80	60 to 120	100 to 200

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SANYO Semiconductor Co., Ltd.

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# 2SC4217

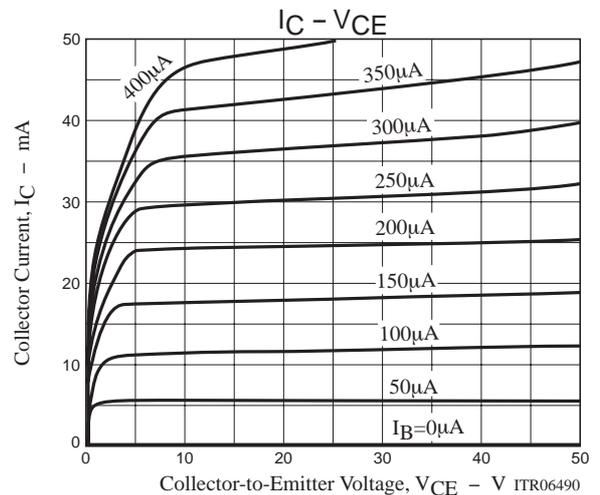
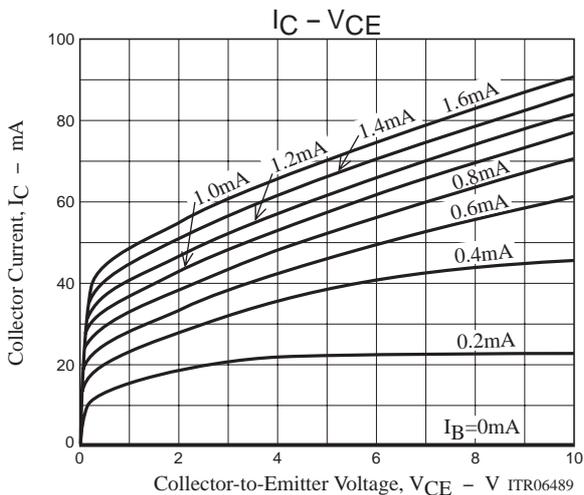
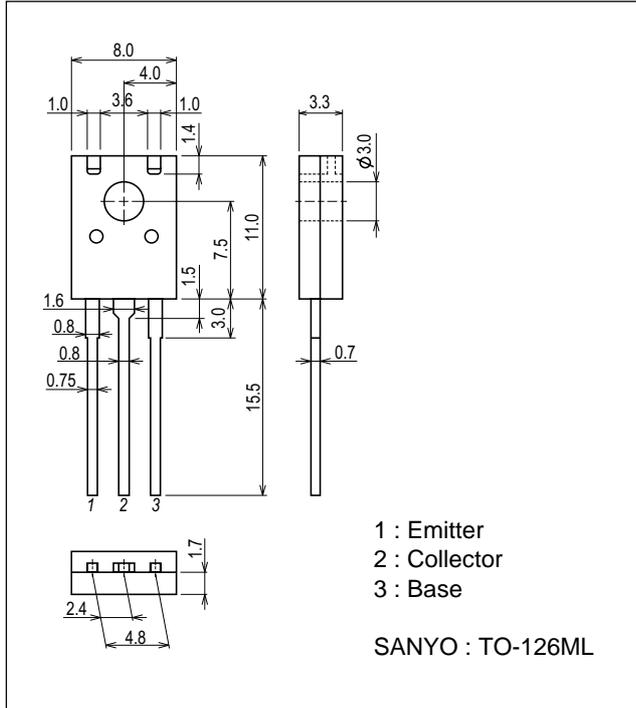
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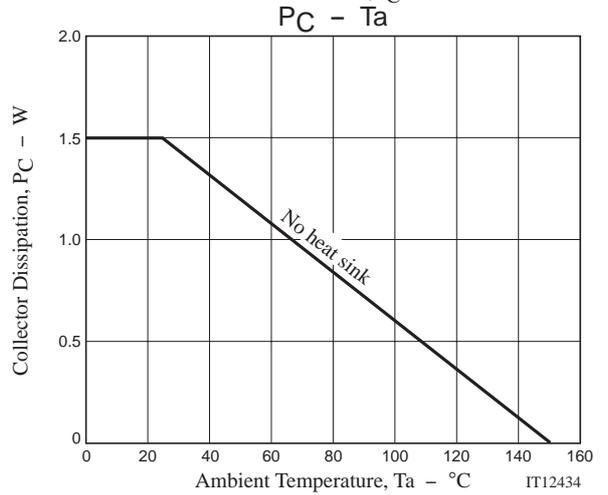
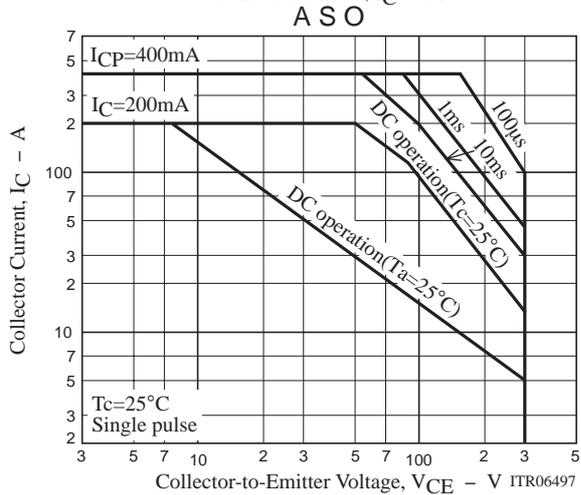
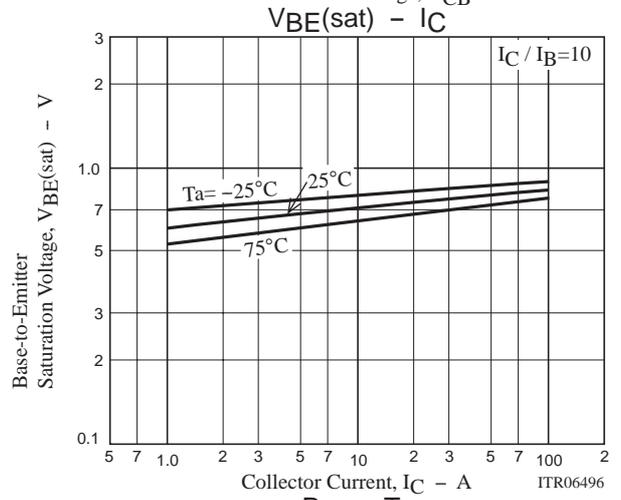
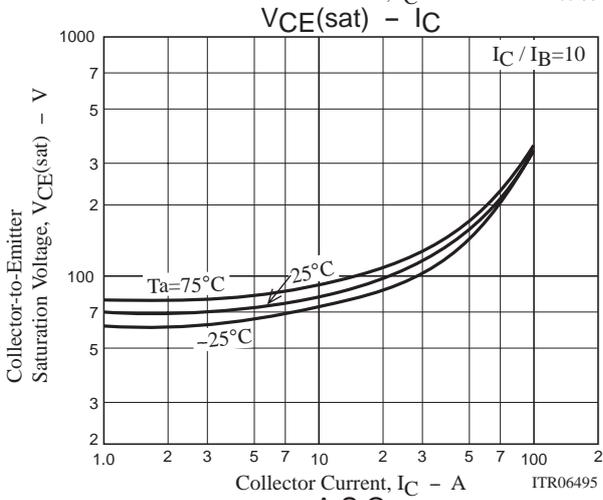
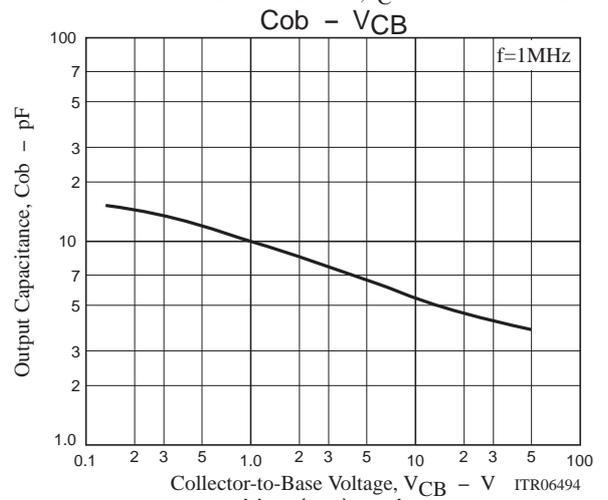
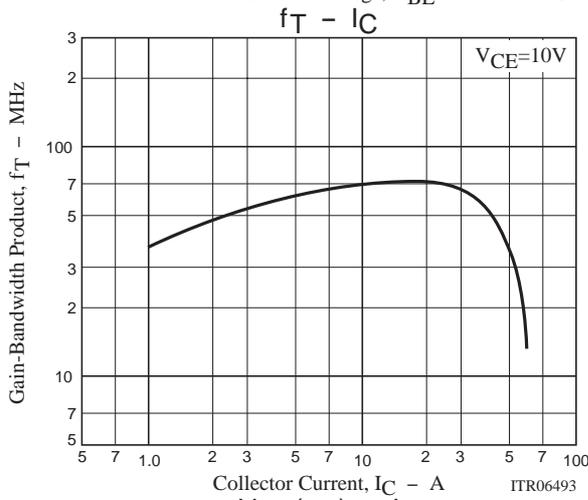
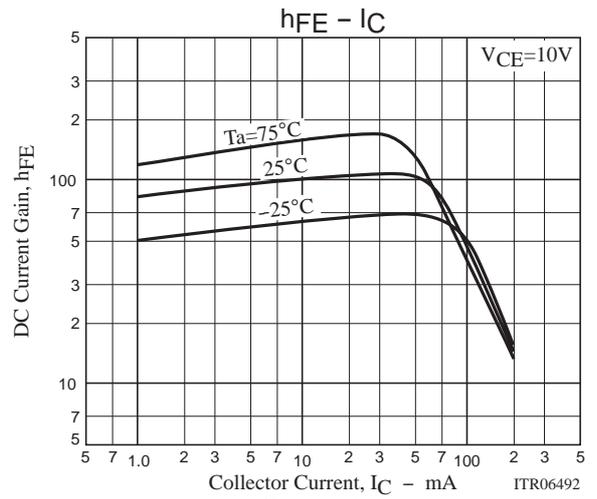
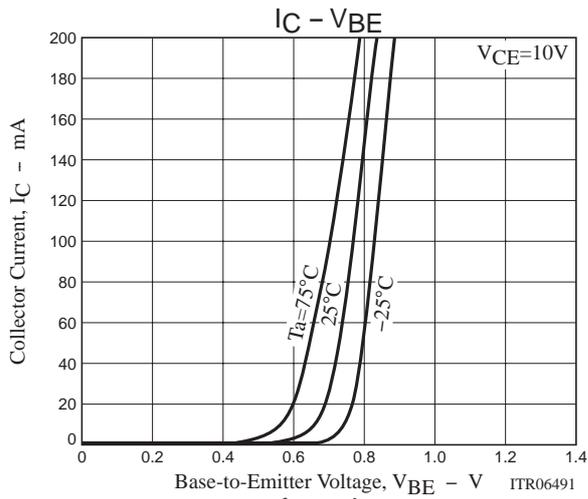
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Gain-Bandwidth Product	$f_T$	$V_{CE}=10V, I_C=10mA$		70		MHz
Output Capacitance	$C_{ob}$	$V_{CB}=50V, f=1MHz$		3.5		pF
Collector-to-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=20mA, I_B=2mA$			0.6	V
Base-to-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C=20mA, I_B=2mA$			1.0	V

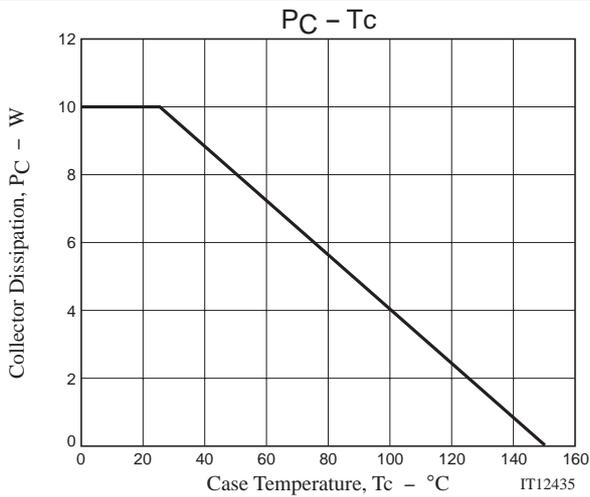
## Package Dimensions

unit : mm (typ)

7516-002







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