

**2SC4217**

Color TV Chroma Output and Audio Output Applications

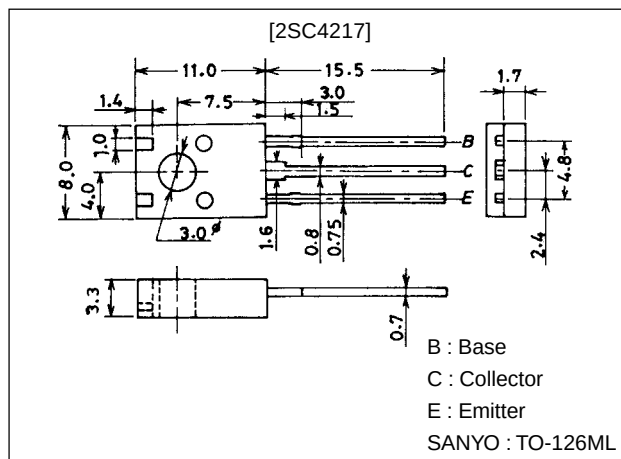
Features

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

Package Dimensions

unit:mm

2042A



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	P_C	$T_a = 25^\circ C$	1.5	W
		$T_c = 25^\circ C$	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}	$V_{CB} = 200V, I_E = 0$			0.1	μA
Emitter Cutoff Current	I_{EBO}	$V_{EB} = 5V, I_C = 0$			0.1	μA
DC Current Gain	h_{FE}	$V_{CE} = 10V, I_C = 10mA$	40*		200*	
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

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

40	C	80	60	D	120	100	E	200
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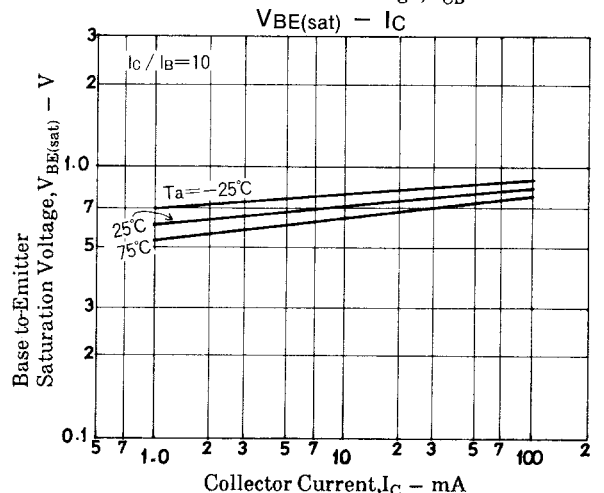
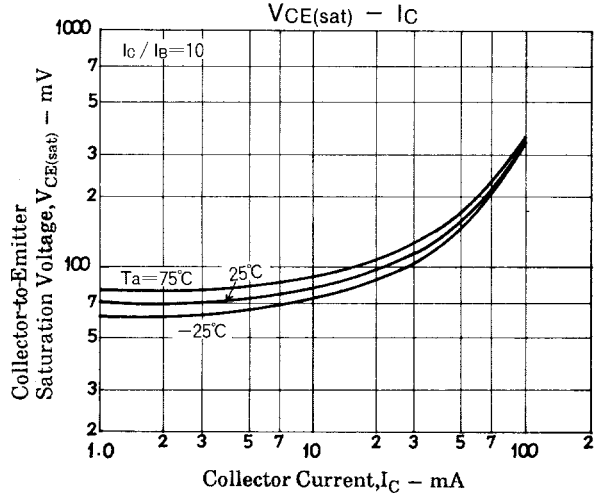
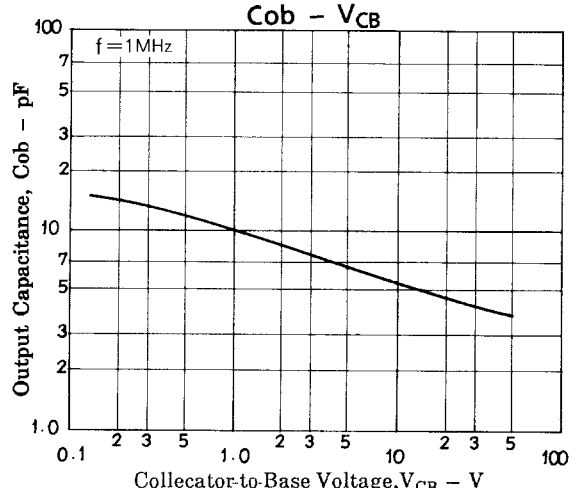
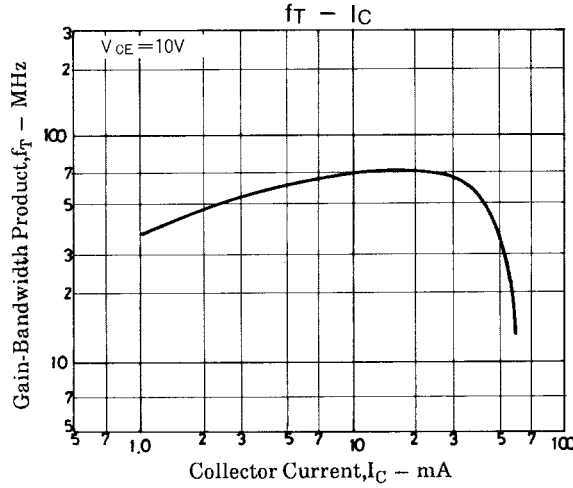
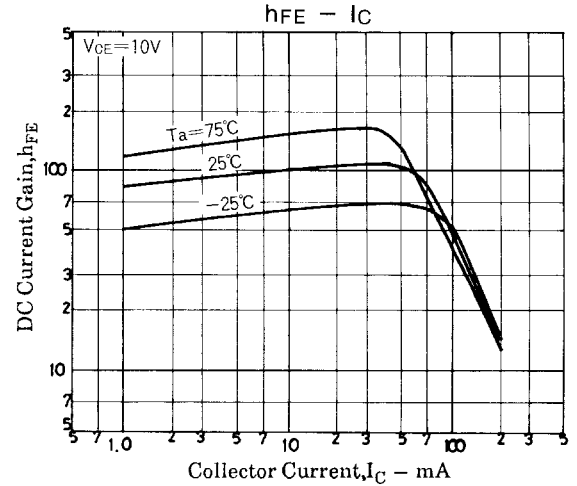
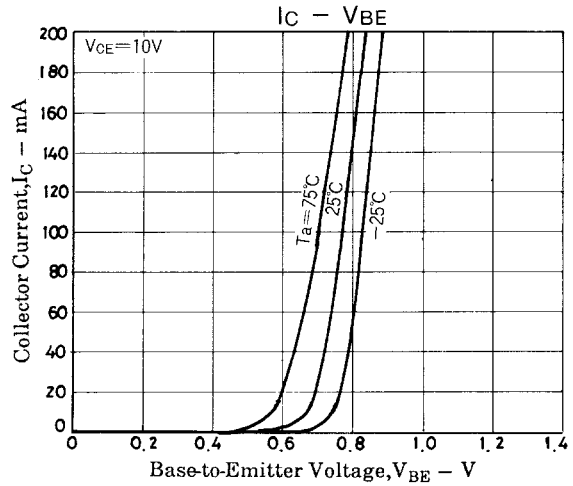
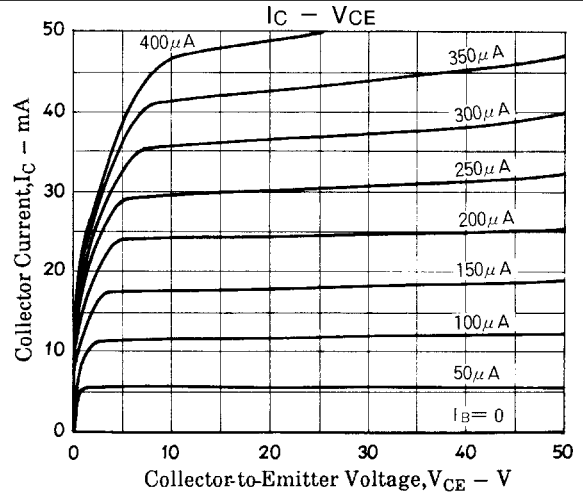
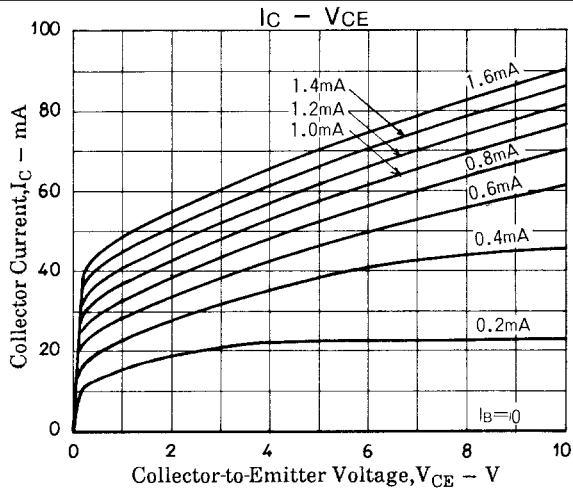
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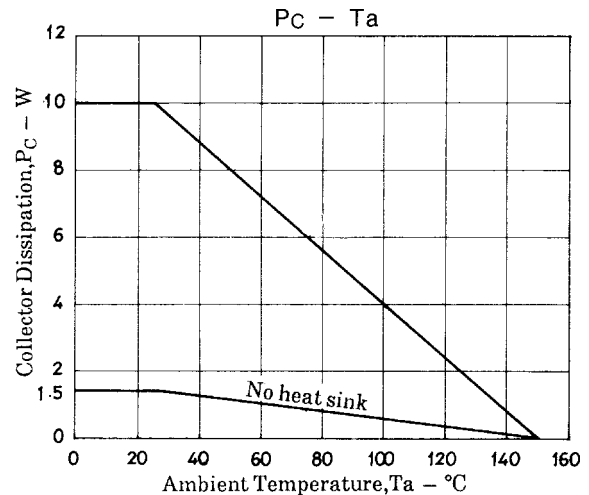
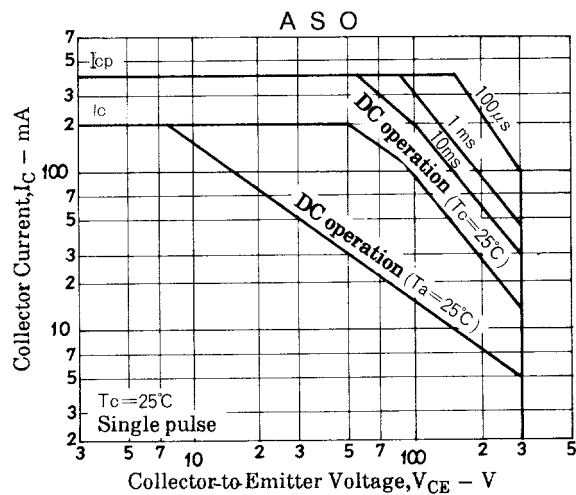
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2SC4217





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