

**2SC4075**

## Color TV Chroma Output and Audio Output Applications

### Applications

- Color TV chroma output, sound output and B/W TV video output, audio output applications.

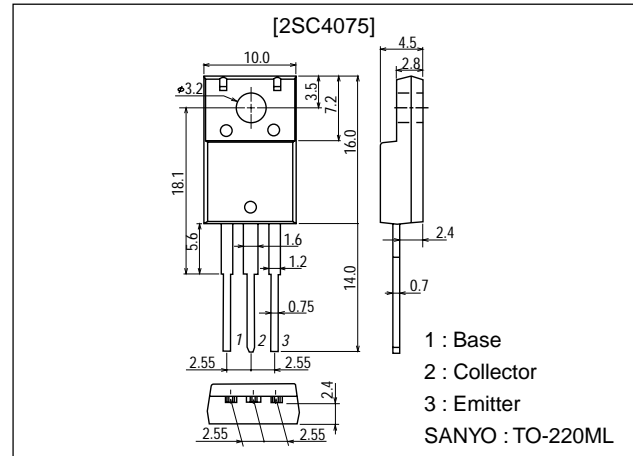
### Features

- Highly resistant to breakdown and wide ASO.
- Micaless package facilitating mounting.

### Package Dimensions

unit:mm

2041A



### Specifications

#### Absolute Maximum Ratings at $T_a = 25^\circ\text{C}$

Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	$V_{CB0}$		300	V
Collector-to-Emitter Voltage	$V_{CEO}$		300	V
Emitter-to-Base Voltage	$V_{EBO}$		7	V
Collector Current	$I_C$		200	mA
Collector Current (Pulse)	$I_{CP}$		700	mA
Collector Dissipation	$P_C$		2	W
		$T_c=25^\circ\text{C}$	10	W
Junction Temperature	$T_j$		150	$^\circ\text{C}$
Storage Temperature	$T_{stg}$		-55 to +150	$^\circ\text{C}$

#### Electrical Characteristics at $T_a = 25^\circ\text{C}$

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Collector Cutoff Current	$I_{CBO}$	$V_{CB}=200\text{V}, I_E=0$			0.1	$\mu\text{A}$
Emitter Cutoff Current	$I_{EBO}$	$V_{EB}=5\text{V}, I_C=0$			0.1	$\mu\text{A}$
DC Current Gain	$h_{FE}$	$V_{CE}=10\text{V}, I_C=10\text{mA}$	40*		200*	
Gain-Bandwidth Product	$f_T$	$V_{CE}=30\text{V}, I_C=10\text{mA}$	50			MHz
Output Capacitance	$C_{ob}$	$V_{CB}=50\text{V}, f=1\text{MHz}$			5.3	pF
Collector-to-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=50\text{mA}, I_B=5\text{mA}$			2.0	V

\* : The 2SC4075 is classified by 10mA  $h_{FE}$  as follows :

40	C	80	60	D	120	100	E	200
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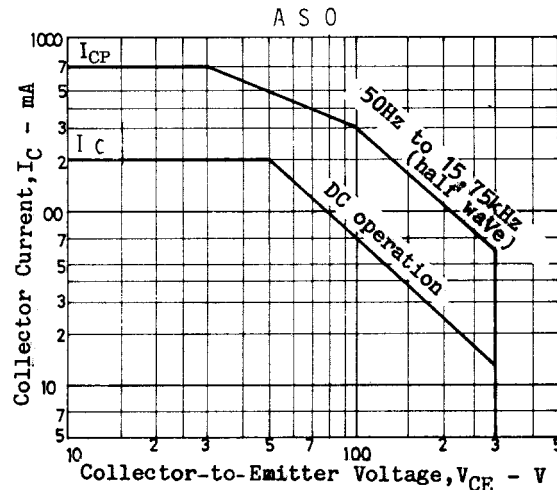
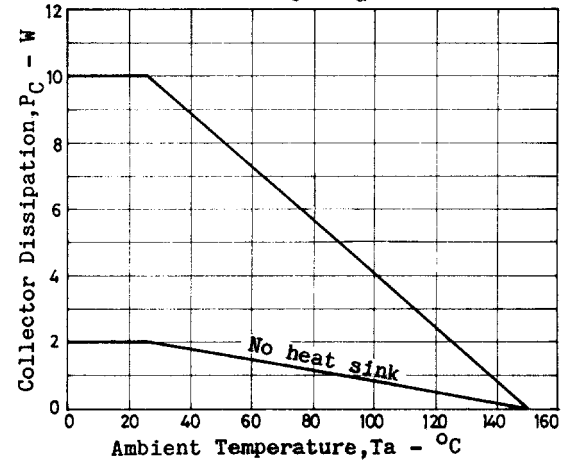
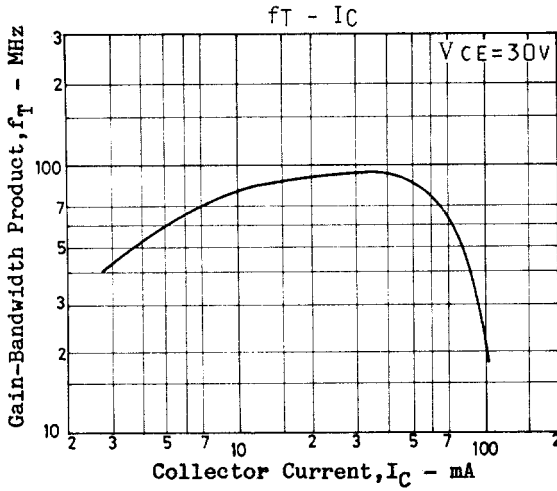
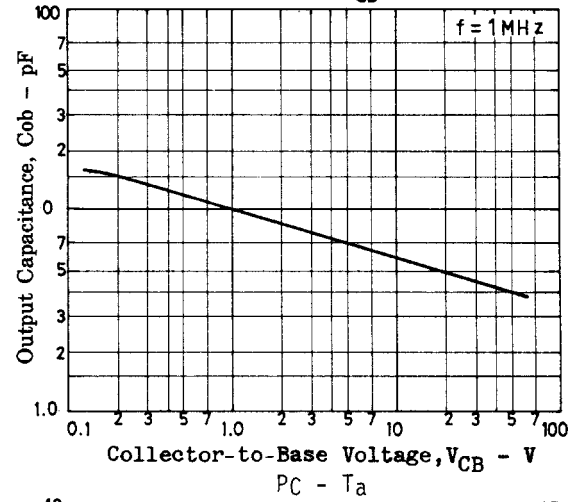
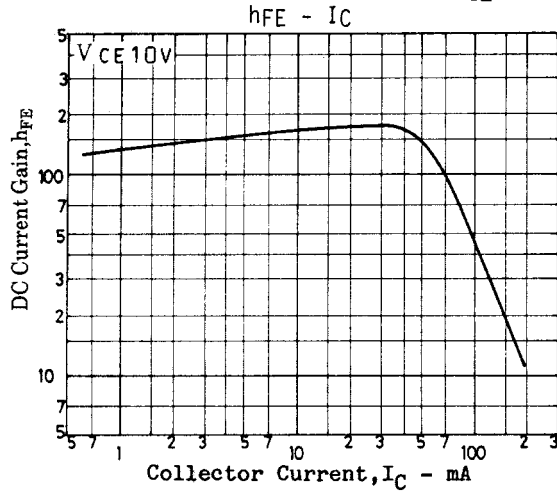
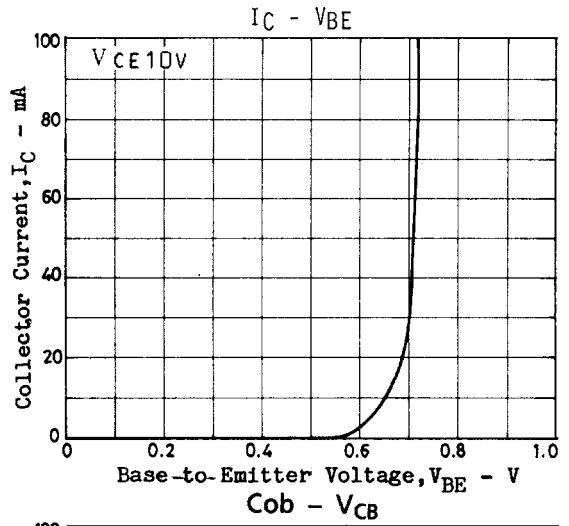
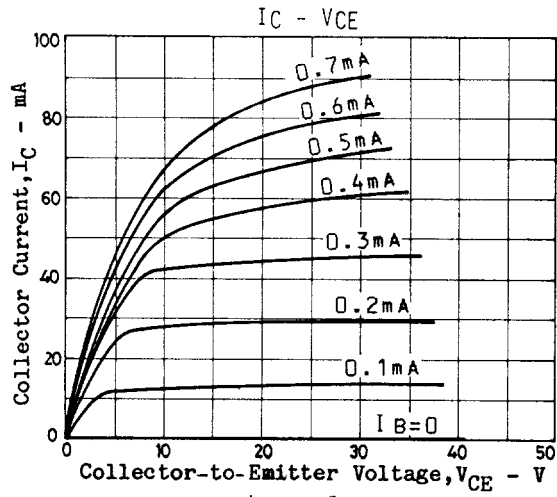
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# 2SC4075



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