

NPN Triple Diffused Planar Silicon Transistor

**SANYO****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.

**Specifications****Absolute Maximum Ratings at Ta = 25°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	$V_{EBO}$			7	V
Collector Current	$I_C$			200	mA
Collector Current (Pulse)	$I_{CP}$			700	mA
Collector Dissipation	$P_C$			2	W
		Tc=25°C		10	W
Junction Temperature	$T_j$			150	°C
Storage Temperature	$T_{stg}$			-55 to +150	°C

**Electrical Characteristics at Ta = 25°C**

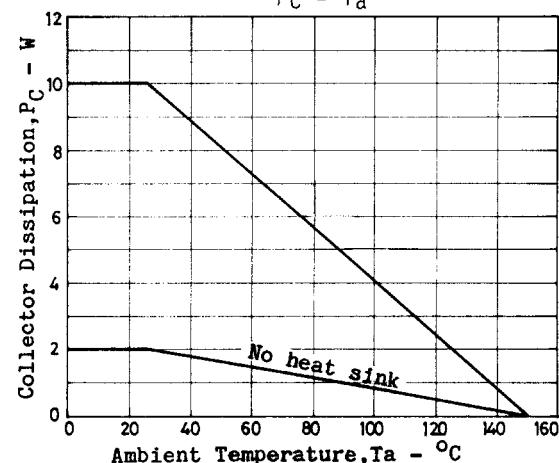
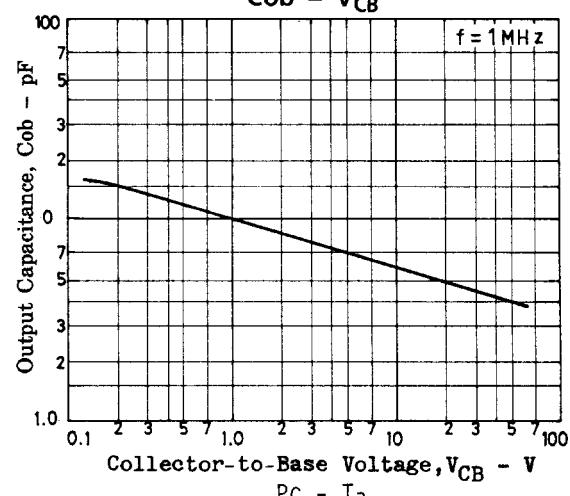
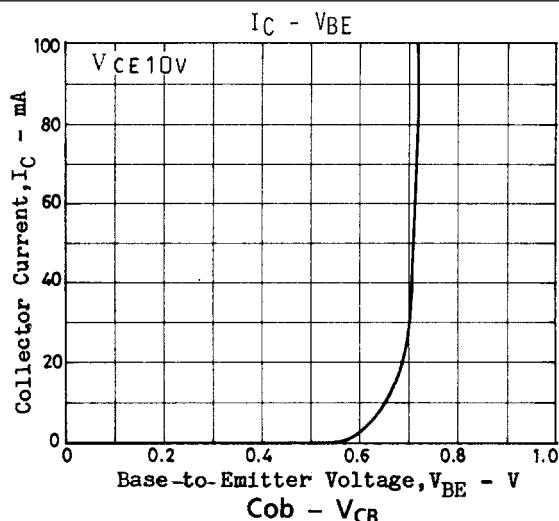
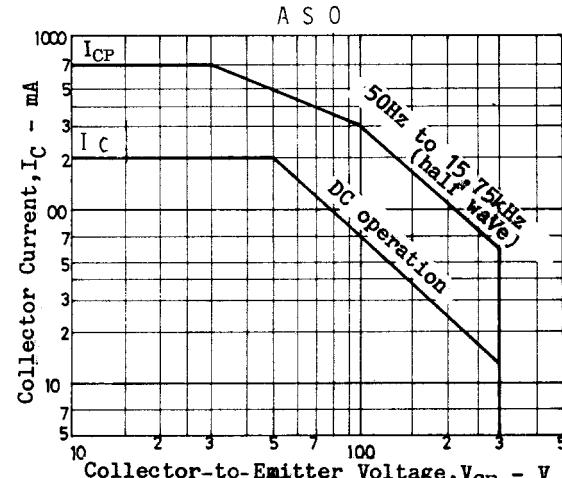
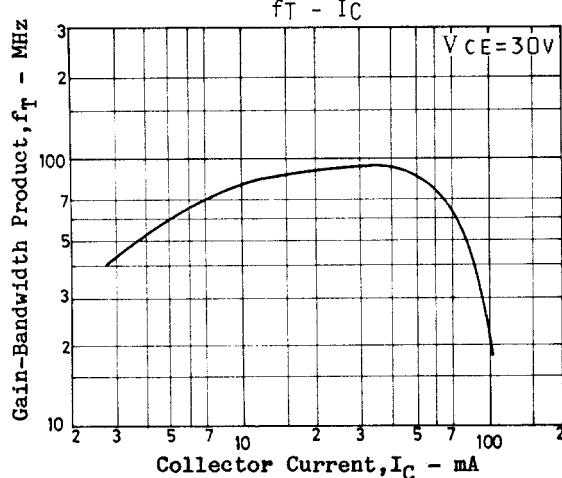
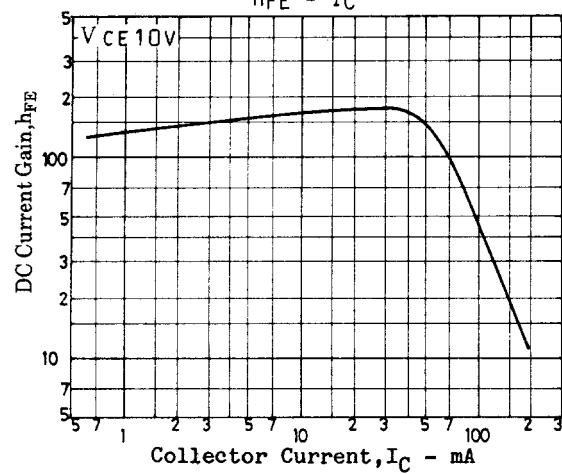
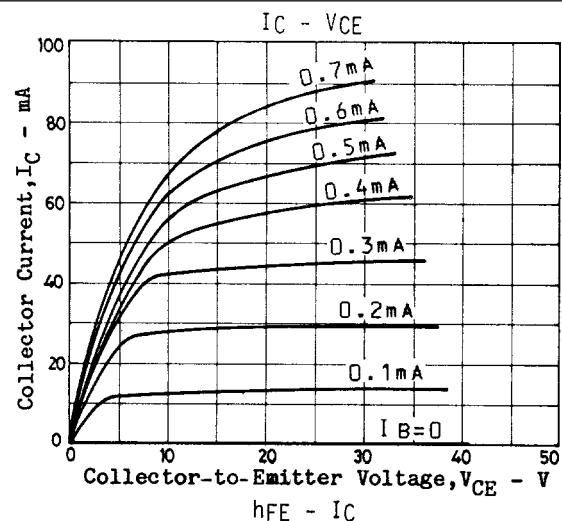
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Collector Cutoff Current	$I_{CBO}$	$V_{CB}=200V, I_E=0$			0.1	µA
Emitter Cutoff Current	$I_{EBO}$	$V_{EB}=5V, I_C=0$			0.1	µA
DC Current Gain	$h_{FE}$	$V_{CE}=10V, I_C=10mA$	40*		200*	
Gain-Bandwidth Product	$f_T$	$V_{CE}=30V, I_C=10mA$	50			MHz
Output Capacitance	$C_{ob}$	$V_{CB}=50V, f=1MHz$			5.3	pF
Collector-to-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=50mA, I_B=5mA$			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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## 2SC4075



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