Ordering number:EN2532

NPN Triple Diffused Planar Silicon Transistor

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.

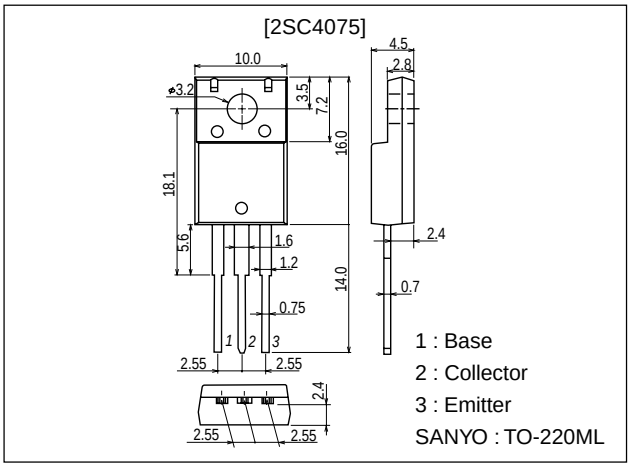
Features

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

Package Dimensions

unit:mm

2041A



Specifications

Absolute Maximum Ratings at 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	Tj		150	˚C
Storage Temperature	Tstg		–55 to +150	˚C

Electrical Characteristics at Ta = 25˚C

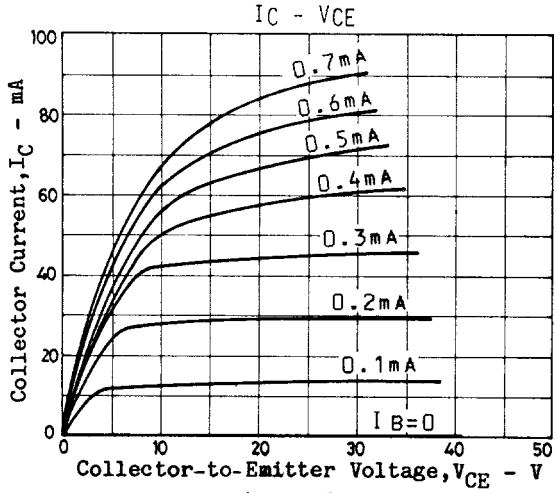
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Collector Cutoff Current	I_{CBO}	V_{CB}=200V, I_E=0			0.1	μA
Emitter Cutoff Current	I_{EBO}	V_{EB}=5V, I_C=0			0.1	μA
DC Current Gain	h_{FE}	V_{CE}=10V, I_C=10mA	40*		200*	
Gain-Bandwidth Product	f_T	V_{CE}=30V, I_C=10mA	50			MHz
Output Capacitance	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 :

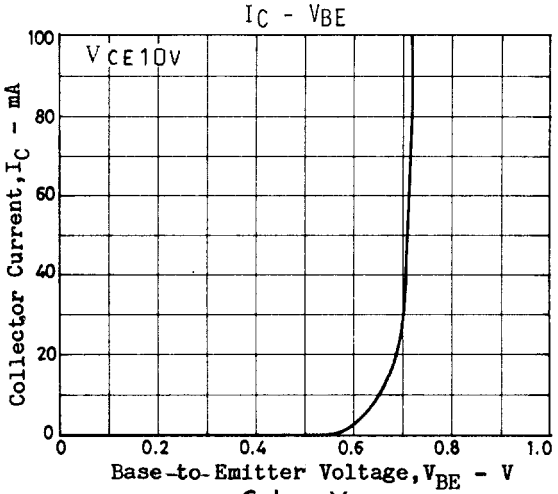
40	C	80	60	D	120	100	E	200

SANYO Electric Co.,Ltd. Semiconductor Bussiness Headquaters
TOKYO OFFICE Tokyo Bldg., 1-10, 1 Chome, Ueno, Taito-ku, TOKYO, 110-8534 JAPAN

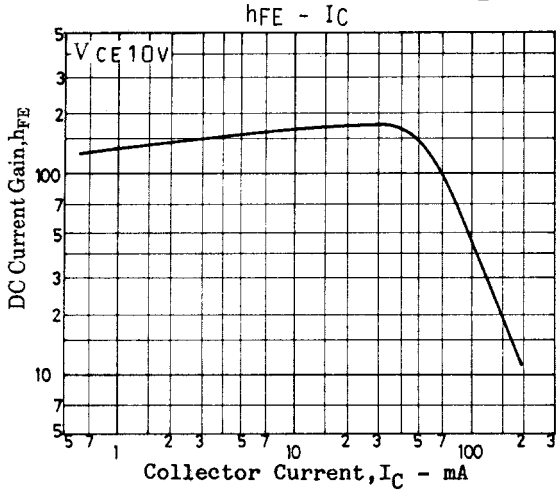
I_C - V_{CE}



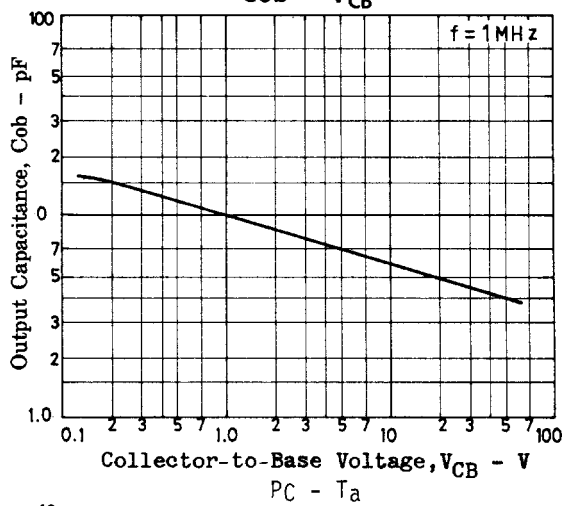
I_C - V_{BE}



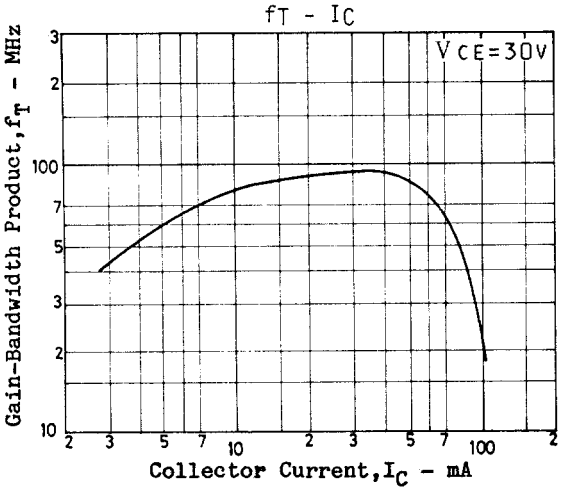
hFE - IC



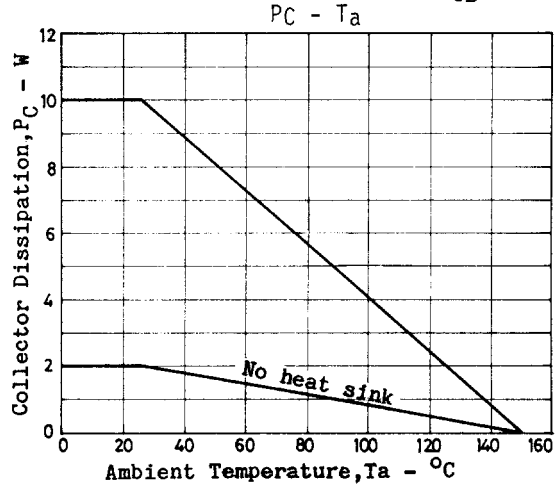
Cob - V_{CB}



fT - IC



PC - Ta



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