

SILICON TRANSISTOR 2SA675

PNP SILICON EPITAXIAL TRANSISTOR FOR DRIVING FLUORESCENT INDICATOR PANNEL

The 2SA675 is a resin sealed mold transistor and is ideal for dynamic drivers of counting indicator pannel such as fluorescent indicator pannel due to high voltage.

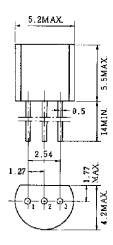
- High voltage
 VcBo > -80 V, VcEr > -80 V
- · Excellent linearity for current of DC current gain

ABSOLUTE MAXIMUM RATINGS (Ta = 25°C)

Parameter	Symbol	Ratings	Unit
Collector to base voltage	base voltage V _{CBO}		V
Collector to emitter voltage	mitter voltage V _{CER} * -80		V
Emitter to base voltage	age V _{EBO} -5.0		V
Collector current	Ic	-100	mA
Total power dissipation	Рт	250	mW
Junction temperature	Tj	125	°C
Storage temperature	T _{stg}	-55 to +125	°C

^{*} Rbe = 30 k Ω

PACKAGE DRAWING (UNIT: mm)



Electrode Connection

1. Emitter

2. Collector

3. Base

EIAJ : SC-43 JEDEC : TO-92 IEC : PA33

ELECTRICAL CHARACTERISTICS (Ta = 25°C)

Parameter	Symbol	Conditions	MIN.	TYP.	MAX.	Unit
Collector cutoff current	Ісво	V _{CB} = -60 V, I _E = 0			-1.0	μΑ
Emitter cutoff current	Ієво	$V_{EB} = -3.0 \text{ V}, \text{ Ic} = 0$			-1.0	μΑ
DC current gain	h _{FE1}	$V_{CE} = -3.0 \text{ V}, \text{ Ic} = -1.0 \text{ mA}$	60	120		
DC current gain	h _{FE2}	Vce = -3.0 V, Ic = -20 mA	50	120	300	
Collector saturation voltage	V _{CE(sat)}	Ic = -20 mA, I _B = -1.0 mA		-0.10	-1.50	V
Base saturation voltage	V _{BE(sat)}	Ic = -20 mA, I _B = -1.0 mA		-0.74	-1.20	V
Gain bandwidth product	f⊤	VcE = -6.0 V, IE = 10 mA	100	170		MHz
Output capacitance	Cob	$V_{CB} = -10 \text{ V}, I_E = 0, f = 1.0 \text{ MHz}$		4.5	10	pF
Storage time	tstg	Refer to the test circuit.		0.5	1.0	μs

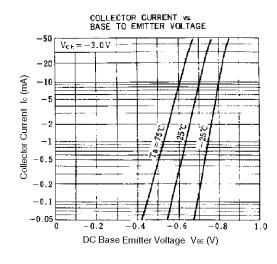
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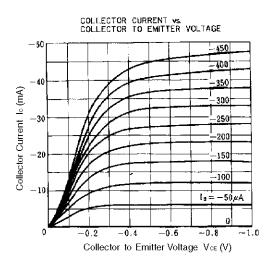


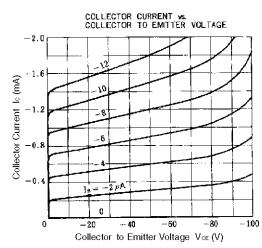
hfe CLASSIFICATION

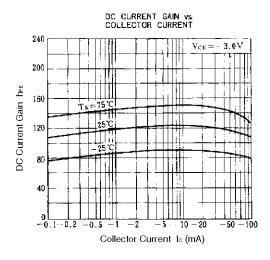
Marking	L	K	U
h _{FE2}	50 to 125	80 to 200	120 to 300

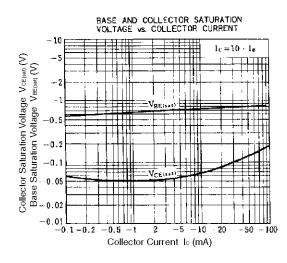
TYPICAL CHARACTERISTICS (Ta = 25°C)

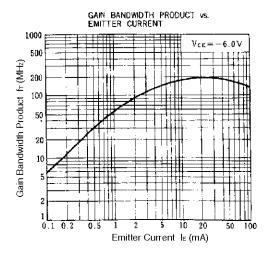


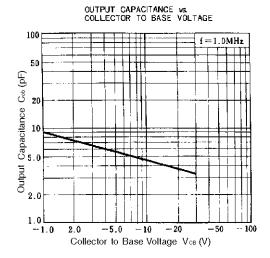




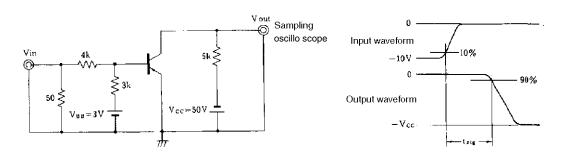








SWITCHING TIME TEST CIRCUIT



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