

(SMALL-SIGNAL TRANSISTOR)

2SC3249

FOR SMALL TYPE COLOUR TV CHROMA OUTPUT APPLICATION
SILICON NPN TRIPLE DIFFUSED TYPE

DESCRIPTION

2SC3249 is a silicon NPN triple diffused transistor designed for colour TV chroma output circuit, high voltage, switching circuit application.

FEATURE

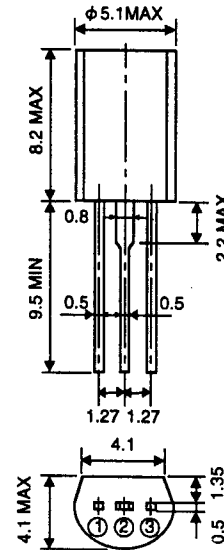
- High voltage $V_{CE0}=250V$
- High gain width product $f_r=80MHz$ typ
- Low C_{ob} $C_{ob}=3.5pF$ typ

APPLICATION

Small type colour TV chroma output circuit, high voltage switching circuit.

OUTLINE DRAWING

Unit:mm



TERMINAL CONNECTOR

- ① : EMITTER EIAJ : —
- ② : COLLECTOR JEDEC : —
- ③ : BASE

Note) The dimension without tolerance represent central value.

MAXIMUM RATINGS (Ta=25°C)

Symbol	Parameter	Rating	Unit
Vcbo	Collector to Base voltage	300	V
VEBO	Emitter to Base voltage	5	V
VCEO	Collector to Emitter voltage	250	V
Ic	Collector current	100	mA
Pc	Collector dissipation(Ta=25°C)	900	mW
Tj	Junction temperature	+150	°C
Tstg	Storage temperature	-55 to +150	°C

ELECTRICAL CHARACTERISTICS (Ta=25°C)

Symbol	Parameter	Test conditions	Limits			Unit
			Min	Typ	Max	
V(BR)CBO	C to B break down voltage	Ic=10 μA, IE=0	300			V
V(BR)EBO	E to B break down voltage	IE=10 μA, IC=0	5			V
V(BR)CEO	C to E break down voltage	Ic=5mA, RBE=∞, pulse measurement	250			V
ICBO	Collector cut off current	VCB=150V, IE=0			1	μA
hFE *	DC forward current gain	VCE=10V, IC=25mA	55		230	—
VCE(sat)	C to E saturation voltage	Ic=25mA, IB=2.5mA			1.5	V
fr	Gain band width product	VCE=10V, IE=-10mA f=10MHz	60	80		MHz
Cob	Collector output capacitance	VCB=10V, IE=0, f=1MHz, triode measurement		3.5		pF

* It shows hFE classification in right table.

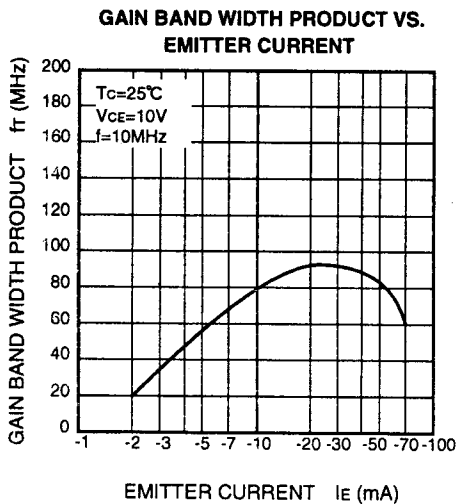
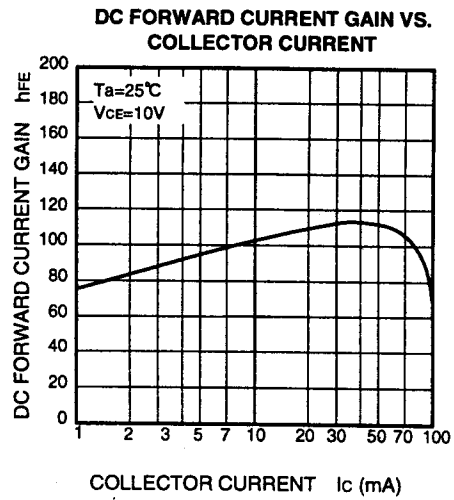
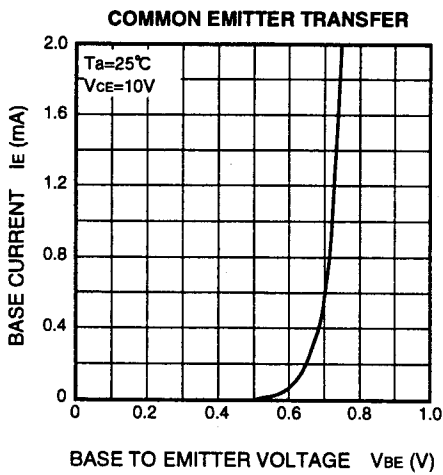
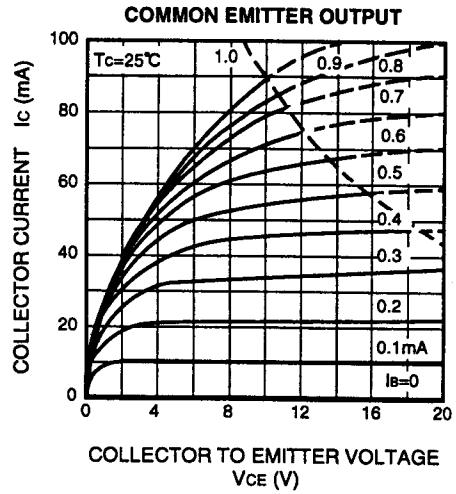
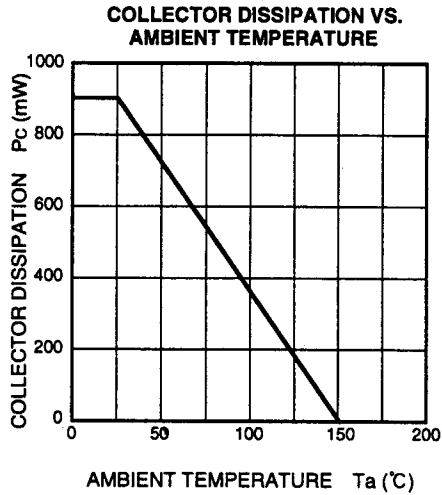
Item	C	D	E
hFE	55 to 110	90 to 180	150 to 230

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TYPICAL CHARACTERISTICS



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