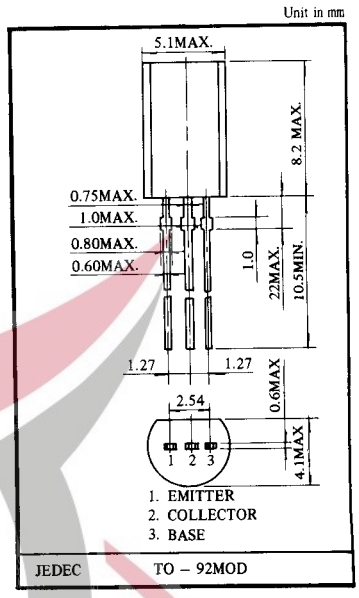
2SA1275

SILICON PNP TRANSISTOR
EPITAXIAL PLANAR TYPE (PCT PROCESS)

APPLICATIONS

- Color TV VERT. Deflection Output.
- Color TV Class B Sound Output.



FEATURES

- High Voltage : $V_{CEO} = -160V$
- Large Continuous Collector Current Capability.
- Recommended for Vert. Deflection Output & Sound Output Applications for Line Operated TV.
- Complementary to 2SC3228.

MAXIMUM RATINGS (Ta = 25℃)

CHARACTISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CBO}	−160	V
Collector-Emitter Voltage	V_{CEO}	−160	V
Emitter-Base Voltage	V_{EBO}	−6	V
Collector Current	I_C	−1	A

CHARACTERISTIC	SYMBOL	RATING	UNIT
Base Current	I_B	−0.5	A
Collector Power Dissipation	P_C	900	mW
Junction Temperature	T_j	150	℃
Storage Temperature Range	T_{stg}	−55~150	℃

ELECTRICAL CHARACTERISTICS (Ta = 25℃)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	$V_{CB} = -150V$, $I_E = 0$	–	–	-1.0	μA
Emitter Cut-off Current	I_{EBO}	$V_{EB} = -6V$, $I_C = 0$	–	–	-1.0	μA
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C = -10mA$, $I_B = 0$	-160	–	–	V
DC Current Gain	$h_{FE(NOTE)}$	$V_{CE} = -5V$, $I_C = -200mA$	60	–	320	–
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = -500mA$, $I_B = -50mA$	–	–	-1.5	V
Base-Emitter Voltage	V_{BE}	$V_{CE} = -5V$, $I_C = -5mA$	-0.45	–	-0.75	V
Transition Frequency	f_T	$V_{CE} = -5V$, $I_C = -200mA$	15	50	–	MHz
Collector Output Capacitance	C_{ob}	$V_{CB} = -10V$, $I_E = 0$, f = 1MHz	–	–	35	pF

NOTE: According to h_{FE}, Classified as follows.

R	60 – 120	O	100 – 200	Y	160 – 320