

# 2SA 1275

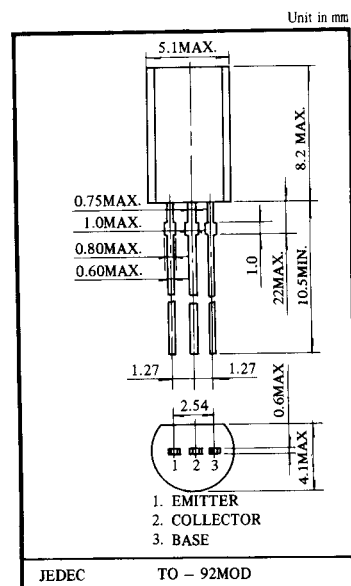
## SILICON PNP TRANSISTOR EPITAXIAL PLANAR TYPE (PCT PROCESS)

### APPLICATIONS

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

### FEATURES

- High Voltage :  $V_{CE0} = -160V$
- Large Continuous Collector Current Capability.
- Recommended for Vert. Deflection Output & Sound Output Applications for Line Operated TV.
- Complementary to 2SC3228.



### ■ MAXIMUM RATINGS ( $T_a = 25^\circ C$ )

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	$V_{CB0}$	-160	V
Collector-Emitter Voltage	$V_{CE0}$	-160	V
Emitter-Base Voltage	$V_{EB0}$	-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	$^\circ C$
Storage Temperature Range	$T_{stg}$	-55~150	$^\circ C$

### ■ ELECTRICAL CHARACTERISTICS ( $T_a = 25^\circ C$ )

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	$I_{CB0}$	$V_{CB} = -150V, I_E = 0$	-	-	-1.0	$\mu A$
Emitter Cut-off Current	$I_{EB0}$	$V_{EB} = -6V, I_C = 0$	-	-	-1.0	$\mu A$
Collector-Emitter Breakdown Voltage	$V_{BR,CE0}$	$I_C = -10mA, I_B = 0$	-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