

SILICON PNP TRANSISTOR EPITAXIAL PLANAR TYPE (PCT PROCESS)

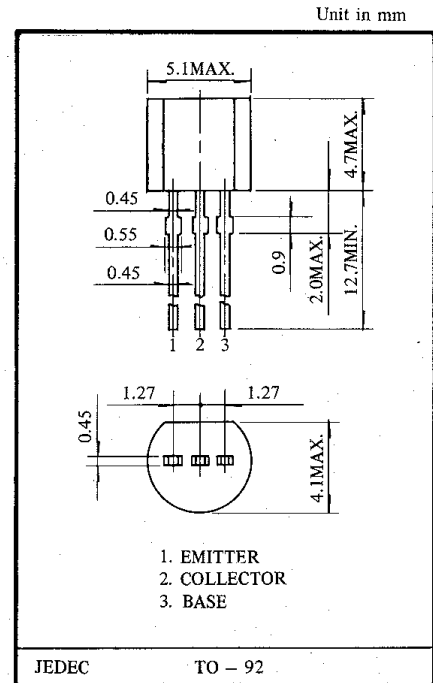
KTA 562TM

APPLICATIONS

- Low Frequency, Low Power Amplifiers
- General-driver Stage Amplifiers
- General Purpose Switching Applications

FEATURES

- Excellent h_{FE} vs. Collector Current Characteristics,
 $h_{FE}(2) = 25\text{min. at}$
 $V_{CE} = -6V, I_C = -400\text{mA}$
- $I_C \text{ max.} = -500\text{mA}$
- $P_C \text{ max.} = 500\text{mW}$
- Complementary to the KTC 1959



MAXIMUM RATINGS ($T_a = 25^\circ\text{C}$)

CHARACTERISTIC	SYMBOL	RATING	UNIT	CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector - Base Voltage	V_{CB0}	-35	V	Emitter Current	I_E	500	mA
Collector - Emitter Voltage	V_{CE0}	-30	V	Collector Power Dissipation	P_C	500	mW
Emitter - Base Voltage	V_{EB0}	-5	V	Junction Temperature	T_j	150	$^\circ\text{C}$
Collector Current	I_C	-500	mA	Storage Temperature Range	T_{stg}	-55~150	$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS ($T_a = 25^\circ\text{C}$)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut off Current	I_{CB0}	$V_{CB} = -35V, I_E = 0$	-	-	-0.1	μA
Emitter Cut off Current	I_{EB0}	$V_{EB} = -5V, I_C = 0$	-	-	-0.1	μA
DC Current Gain (1)	$h_{FE(1)}$	$V_{CE} = -1V, I_C = -100\text{mA}$	70	-	400	
DC Current Gain (2)	$h_{FE(2)}$ (Pulsed)	$V_{CE} = -6V, I_C = -400\text{mA}$	25	-	-	
Collector - Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = -100\text{mA}, I_B = -10\text{mA}$	-	-0.1	-0.25	V
Base - Emitter Voltage	V_{BE}	$I_C = -100\text{mA}, V_{CE} = -1V$	-	-0.8	-1.0	V
Transition Frequency	f_T	$V_{CE} = -6V, I_E = 20\text{mA}$	-	200	-	MHz
Output Capacitance	C_{ob}	$V_{CB} = -6V, I_E = 0, f = 1\text{MHz}$	-	13	-	pF

■ Note : According to $h_{FE}(1)$ Classified as follows

O	70~140	Y	120~240	GR	200~400
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