

SILICON NPN TRANSISTOR EPITAXIAL PLANAR TYPE (PCT PROCESS)

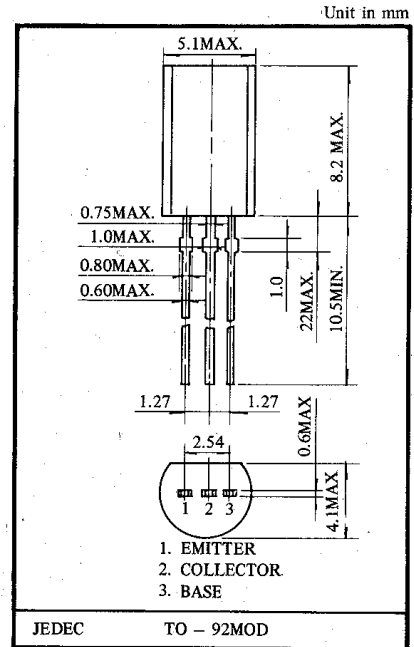
KTC 2383

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 KTA1013



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

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collection - 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_{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
Collecton Emitter Breakdown Voltage	$V_{(BR)CE0}$	$I_C = 10mA, I_B = 0$	160	-	-	V
DC Current Gain	$h_{FE(Notes)}$	$V_{CE} = 5V, I_C = 200mA$	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	$V_{CE} = 5V, I_C = 200mA$	20	100	-	MHz
Collector Output Capacitance	C_{ob}	$V_{CB} = 10V, I_E = 0, f = 1MHz$	-	-	20	pF

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

R	60 ~ 120	O	100 ~ 200	Y	160 ~ 320
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