SILICON NPN TRANSISTOR
EPITAXIAL PLANAR TYPE (PCT PROCESS)

KTC 2383

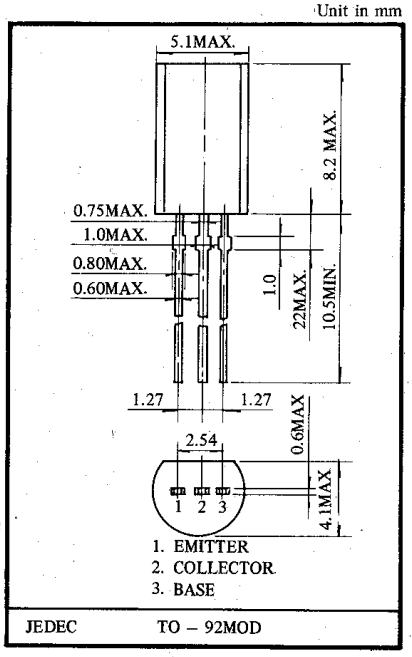
APPLICATIONS

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

FEATURES

- High Voltage : V_{CEO}=160V
- Large Continuous Collector Current Capability.
- Recommended for Vert. Deflection Output & Sound Output Applications for Line Operated TV.
- **Complementary to KTA1013**

Unit in mm



MAXIMUM RATINGS (Ta=25℃)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collection – 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 TemperatureRange	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
Collecton 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	20	100	–	MHz
Collector Output Capacitance	C_{ob}	V_{CB}=10V, I_E=0, f=1MHz	–	–	20	pF

NOTE: According to hFE' Classified as follows.

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

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