



PRODUCT NAME : 2SA1013 PNP TV Output Transistor (Pack of 5)

PRICE : Rs 20.00

SKU : RM2116



NOTE: THE PRODUCT MAY BE DIFFERENT FROM IMAGE SHOWN ABOVE. Copyrights by Robomart.com

DESCRIPTION

Features

- Collector-Emitter Volt (V_{ce0}): 160V
- Collector-Base Volt (V_{cb0}): 160V
- Collector Current (I_c): 1.0A
- h_{fe} : 60-200 @ 200mA
- Power Dissipation (P_{tot}): 900mW
- Current-Gain-Bandwidth (f_{total}): 50MHz
- Type: PNP

TOSHIBA

2SA1013

TOSHIBA TRANSISTOR SILICON PNP EPITAXIAL TYPE (PCT PROCESS)

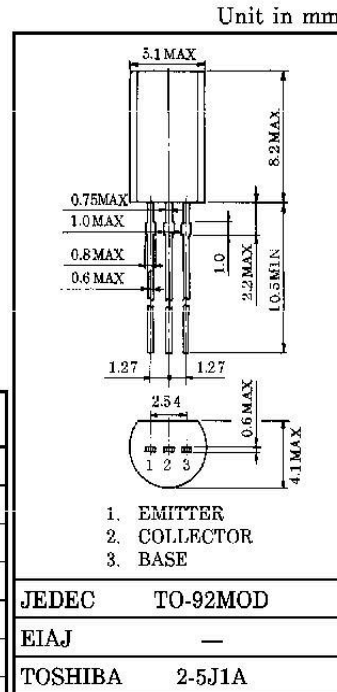
2SA1013

COLOR TV VERT. DEFLECTION OUTPUT APPLICATIONS.
 COLOR TV CLASS B SOUND OUTPUT APPLICATIONS.

- High Voltage : $V_{CEO} = -160V$
- Large Continuous Collector Current Capability.
- Recommended for Vert. Deflection Output & Sound Output Applications for Line Operated TV.
- Complementary to 2SC2383.

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

CHARACTERISTIC	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
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	$^\circ C$



Weight : 0.36g

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
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	—	200	
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 : h_{FE} Classification R : 60~120, O : 100~200

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● TOSHIBA is continually working to improve the quality and the reliability of its products. Nevertheless, semiconductor devices in general can malfunction or fail due to their inherent electrical sensitivity and vulnerability to physical stress. It is the responsibility of the buyer, when utilizing TOSHIBA products, to observe standards of safety, and to avoid situations in which a malfunction or failure of a TOSHIBA product could cause loss of human life, bodily injury or damage to property. In developing your designs, please ensure that TOSHIBA products are used within specified operating ranges as set forth in the most recent products specifications. Also, please keep in mind the precautions and conditions set forth in the TOSHIBA Semiconductor Reliability Handbook.

1997-09-01 1/3

