

TOSHIBA TRANSISTOR SILICON NPN TRIPLE DIFFUSED TYPE

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HIGH VOLTAGE SWITCHING AND AMPLIFIER APPLICATIONS.

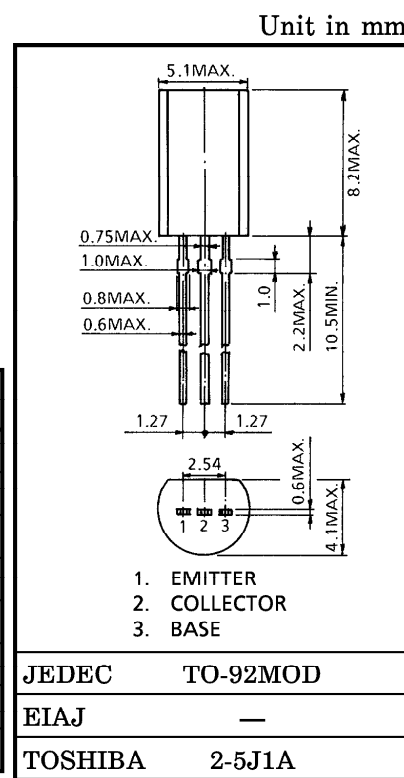
COLOR TV HORIZ. DRIVER APPLICATIONS.

COLOR TV CHROMA OUTPUT APPLICATIONS.

- High Voltage : $V_{(BR)CEO} = 300V$
- Small Collector Output Capacitance : $C_{ob} = 3.0pF$ (Typ.)

MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CBO}	300	V
Collector-Emitter Voltage	V_{CEO}	300	V
Emitter-Base Voltage	V_{EBO}	7	V
Collector Current	I_C	100	mA
Base Current	I_B	50	mA
Collector Power Dissipation	P_C	900	mW
Junction Temperature	T_j	150	°C
Storage Temperature Range	T_{stg}	-55~150	°C



Weight : 0.36g

ELECTRICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	$V_{CB}=240V, I_E=0$	—	—	1.0	μA
Emitter Cut-off Current	I_{EBO}	$V_{EB}=7V, I_C=0$	—	—	1.0	μA
DC Current Gain	$h_{FE}(1)$	$V_{CE}=10V, I_C=4mA$	20	—	—	
	$h_{FE}(2)$	$V_{CE}=10V, I_C=20mA$	30	—	150	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=10mA, I_B=1mA$	—	—	1.0	V
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C=10mA, I_B=1mA$	—	—	1.0	V
Transition Frequency	f_T	$V_{CE}=10V, I_C=20mA$	50	—	—	MHz
Collector Output Capacitance	C_{ob}	$V_{CB}=20V, I_E=0, f=1MHz$	—	3.0	—	pF

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