

TOSHIBA TRANSISTOR SILICON NPN EPITAXIAL TYPE

2SC2383

COLOR TV VERT. DEFLECTION OUTPUT APPLICATIONS.

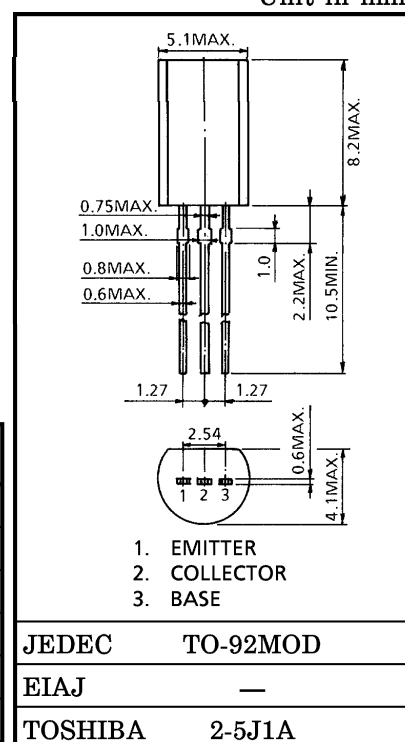
COLOR TV CLASS B SOUND OUTPUT APPLICATIONS.

Unit in mm

- High Voltage : $V_{CEO}=160V$
- Large Continuous Collector Current Capability.
- Recommended for Vert. Deflection Output & Sound Output Applications for Line Operated TV.
- Complementary to 2SA1013

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	0.1	A
Collector Power Dissipation	P_C	900	mW
Junction Temperature	T_j	150	$^\circ C$
Storage Temperature Range	T_{stg}	$-55 \sim 150$	$^\circ C$



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	—	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 : h_{FE} Classification R : 60~120, O : 100~200, Y : 160~320

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