

TOSHIBA TRANSISTOR SILICON NPN TRIPLE DIFFUSED TYPE (PCT PROCESS)

# 2SC3334

HIGH VOLTAGE SWITCHING APPLICATIONS.

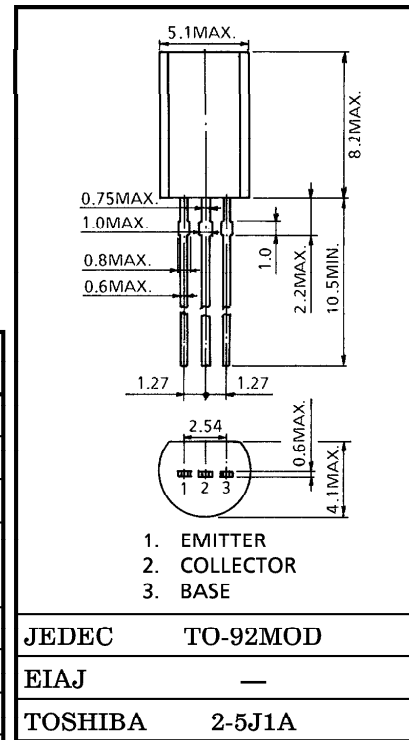
COLOR TV CHROMA OUTPUT APPLICATIONS.

- High Voltage :  $V_{CEO} = 250V$
- Low  $C_{re}$  : 1.8pF (Max.)
- Complementary to 2SA1321

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

CHARACTERISTIC		SYMBOL	RATING	UNIT
Collector-Base Voltage		$V_{CBO}$	250	V
Collector-Emitter Voltage		$V_{CEO}$	250	V
Emitter-Base Voltage		$V_{EBO}$	5	V
Collector Current	DC	$I_C$	50	mA
	Pulse	$I_{CP}$	100	
Base Current		$I_B$	20	mA
Collector Power Dissipation		$P_C$	0.9	W
Junction Temperature		$T_j$	150	$^\circ C$
Storage Temperature Range		$T_{stg}$	-55~150	$^\circ C$

Unit in mm



Weight : 0.36g

ELECTRICAL CHARACTERISTICS ( $T_a = 25^\circ C$ )

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	$I_{CBO}$	$V_{CB} = 200V, I_E = 0$	—	—	1.0	$\mu A$
Emitter Cut-off Current	$I_{EBO}$	$V_{EB} = 5V, I_C = 0$	—	—	1.0	$\mu A$
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C = 1mA, I_B = 0$	250	—	—	V
DC Current Gain	$h_{FE}$	$V_{CE} = 20V, I_C = 25mA$	50	—	—	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = 10mA, I_B = 1mA$	—	—	1.5	V
Base-Emitter Voltage	$V_{BE}$	$V_{CE} = 20V, I_C = 25mA$	—	0.75	—	V
Transition Frequency	$f_T$	$V_{CE} = 10V, I_C = 10mA$	60	100	—	MHz
Reverse Transfer Capacitance	$C_{re}$	$V_{CB} = 30V, I_E = 0, f = 1MHz$	—	—	1.8	pF

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