

TOSHIBA Transistor Silicon NPN Triple Diffused Type

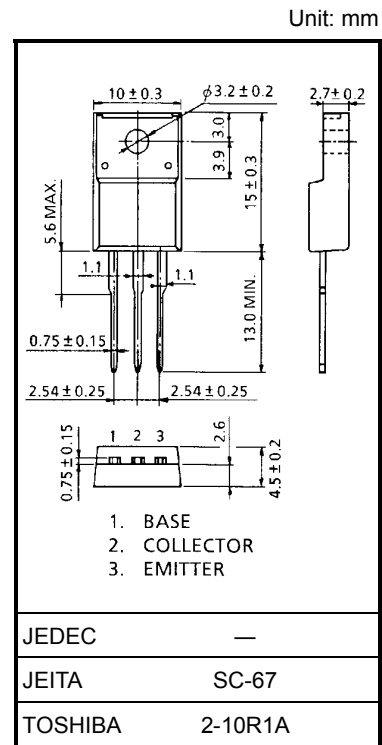
# 2SC5360

Color TV Chroma Output Applications

- High voltage:  $V_{CE0} = 300\text{ V}$
- Small collector output capacitance:  $C_{ob} = 5.0\text{ pF (typ.)}$
- High transition frequency:  $f_T = 100\text{ MHz (typ.)}$

## Maximum Ratings ( $T_c = 25^\circ\text{C}$ )

Characteristics	Symbol	Rating	Unit
Collector-base voltage	$V_{CBO}$	300	V
Collector-emitter voltage	$V_{CEO}$	300	V
Emitter-base voltage	$V_{EBO}$	5	V
Collector current	$I_C$	150	mA
Base current	$I_B$	50	mA
Collector power dissipation	$P_C$	$T_a = 25^\circ\text{C}$	2.0
		$T_c = 25^\circ\text{C}$	12.5
Junction temperature	$T_j$	150	$^\circ\text{C}$
Storage temperature range	$T_{stg}$	-55 to 150	$^\circ\text{C}$

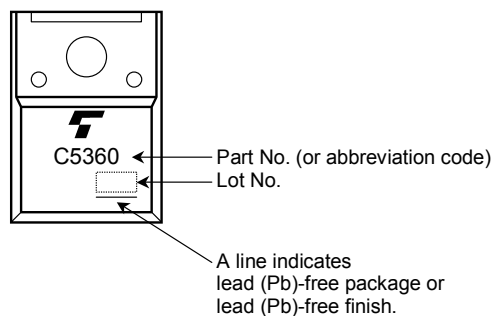


Weight: 1.7 g (typ.)

## Electrical Characteristics ( $T_c = 25^\circ\text{C}$ )

Characteristics	Symbol	Test Condition	Min	Typ.	Max	Unit
Collector cut-off current	$I_{CBO}$	$V_{CB} = 240\text{ V}, I_E = 0$	—	—	1.0	$\mu\text{A}$
Emitter cut-off current	$I_{EBO}$	$V_{EB} = 5\text{ V}, I_C = 0$	—	—	1.0	$\mu\text{A}$
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C = 5\text{ mA}, I_B = 0$	300	—	—	V
DC current gain	$h_{FE}$	$V_{CE} = 10\text{ V}, I_C = 50\text{ mA}$	40	—	170	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = 100\text{ mA}, I_B = 20\text{ mA}$	—	—	1.0	V
Base-emitter saturation voltage	$V_{BE(sat)}$	$I_C = 100\text{ mA}, I_B = 20\text{ mA}$	—	—	1.2	V
Transition frequency	$f_T$	$V_{CE} = 10\text{ V}, I_C = 30\text{ mA}$	40	100	—	MHz
Collector output capacitance	$C_{ob}$	$V_{CB} = 50\text{ V}, I_E = 0, f = 1\text{ MHz}$	—	5.0	6.5	pF

## Marking



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