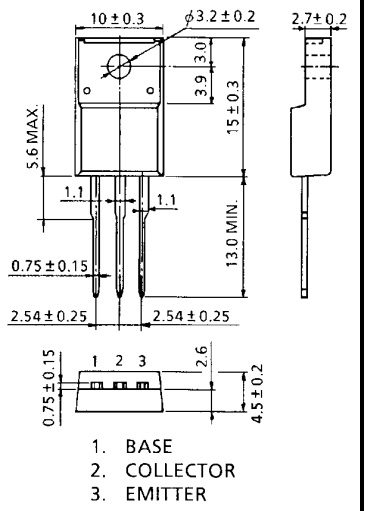
TOSHIBA Transistor Silicon NPN Triple Diffused Type

2SC5360

Color TV Chroma Output Applications

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

Unit: mm



JEDEC	—
JEITA	SC-67
TOSHIBA	2-10R1A

Weight: 1.7 g (typ.)

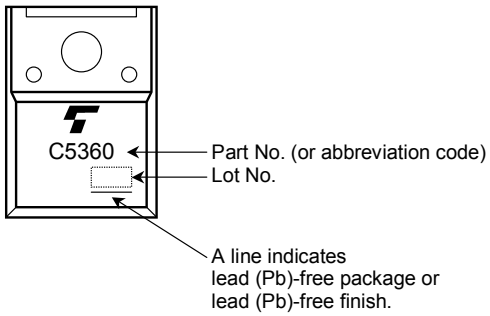
Maximum Ratings (Tc = 25°C)

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	Ta = 25°C	P_C	2.0	W
	Tc = 25°C		12.5	
Junction temperature		T_j	150	°C
Storage temperature range		T_{stg}	−55 to 150	°C

Electrical Characteristics (Tc = 25°C)

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

Marking



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