TOSHIBA Transistor Silicon NPN Triple Diffused Type

2SC5360

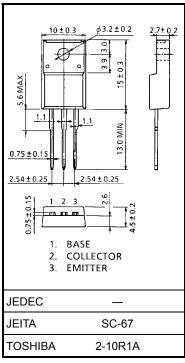
Color TV Chroma Output Applications

Unit: mm

- High voltage: VCEO = 300 V
- Small collector output capacitance: $C_{ob} = 5.0 \text{ pF (typ.)}$
- High transition frequency: fT = 100 MHz (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		Ι _Β	50	mA	
Collector power dissipation	Ta = 25°C	Pc	2.0	W	
	Tc = 25°C		12.5		
Junction temperature		Tj	150	°C	
Storage temperature range		T _{stg}	−55 to 150	°C	

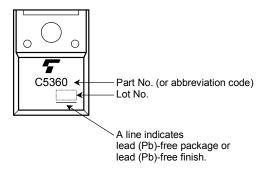


Weight: 1.7 g (typ.)

Electrical Characteristics (Tc = 25°C)

Characteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Collector cut-off current	I _{CBO}	V _{CB} = 240 V, I _E = 0	_	_	1.0	μΑ
Emitter cut-off current	I _{EBO}	V _{EB} = 5 V, I _C = 0	1	_	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



2004-07-26

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