TOSHIBA Transistor Silicon NPN Triple Diffused Type

2SC5563

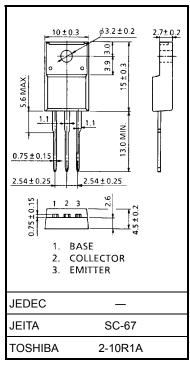
Dynamic Focus Applications

Unit: mm

- High voltage: VCEO = 1500 V
- Small collector output capacitance: $C_{ob} = 2.0 \text{ pF}$ (typ.) ($V_{CB} = 100 \text{ V}$)

Maximum Ratings (Tc = 25°C)

Characteristics		Symbol	Rating	Unit	
Collector-base voltage		V_{CBO}	1500	V	
Collector-emitter voltage		V _{CEO}	1500	V	
Emitter-base voltage		V _{EBO}	7	V	
Collector current	DC	Ic	20	mA	
	Pulse	I _{CP}	40		
Base current		I _B	10	mA	
Collector power dissipation	Tc = 25°C	P _C	10	W	
	Ta = 25°C		2		
Junction temperature		Tj	150	°C	
Storage temperature range		T _{stg}	-55 to 150	°C	

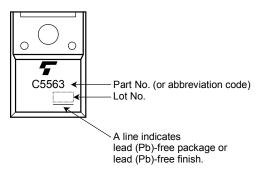


Weight: 1.7 g (typ.)

Electrical Characteristics (Tc = 25°C)

Characteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Collector cut-off current	I _{CBO}	V _{CB} = 1500 V, I _E = 0	_	_	1	μΑ
Emitter cut-off current	I _{EBO}	V _{EB} = 7 V, I _C = 0	_	_	10	μA
Collector-base breakdown voltage	V (BR) CBO	I _C = 0.1 mA, I _E = 0	1500	_	_	V
Collector-emitter breakdown voltage	V (BR) CEO	I _C = 1 mA, I _B = 0	1500	_	_	V
DC current gain	h _{FE}	V _{CE} = 5 V, I _C = 1 mA	10	_	60	
Collector-emitter saturation voltage	V _{CE (sat)}	I _C = 10 mA, I _B = 2 mA	_	_	5.0	V
Base-emitter saturation voltage	V _{BE (sat)}	I _C = 10 mA, I _B = 2 mA	_	_	1.3	V
Collector output capacitance	C _{ob}	V _{CB} = 100 V, f = 1 MHz, I _E = 0	_	2.0	_	pF

Marking



2004-07-26

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