TOSHIBA Transistor Silicon NPN Epitaxial Type

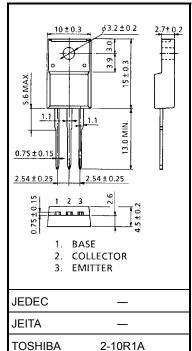
2SC4793

Power Amplifier Applications Driver Stage Amplifier Applications

- High transition frequency: $f_T = 100 \text{ MHz}$ (typ.)
- Complementary to 2SA1837

Absolute Maximum Ratings (Tc = 25°C)

Characteristics		Symbol	Rating	Unit	
Collector-base voltage		V _{CBO}	230	V	
Collector-emitter voltage		V _{CEO}	230	V	
Emitter-base voltage		V _{EBO}	5	V	
Collector current		Ι _C	1	А	
Base current		Ι _Β	0.1	А	
Collector power dissipation	Ta = 25°C	Pc	2.0	w	
	Tc = 25°C	FC	20		
Junction temperature		Тј	150	°C	
Storage temperature range		T _{stg}	-55 to 150	°C	



Note: Using continuously under heavy loads (e.g. the application of high temperature/current/voltage and the significant change in

Weight: 1.7 g (typ.)

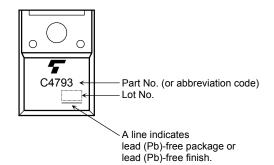
temperature, etc.) may cause this product to decrease in the reliability significantly even if the operating conditions (i.e. operating temperature/current/voltage, etc.) are within the absolute maximum ratings. Please design the appropriate reliability upon reviewing the Toshiba Semiconductor Reliability Handbook ("Handling Precautions"/Derating Concept and Methods) and individual reliability data (i.e. reliability test report and estimated failure rate, etc).

Unit: mm

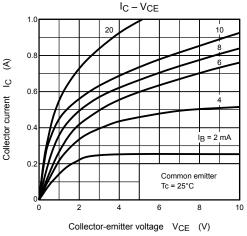
Electrical Characteristics (Tc = 25°C)

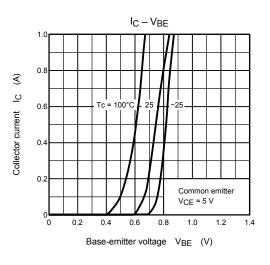
Characteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Collector cut-off current	I _{CBO}	V _{CB} = 230 V, I _E = 0	_	_	1.0	μA
Emitter cut-off current	I _{EBO}	V _{EB} = 5 V, I _C = 0	_	_	1.0	μA
Collector-emitter breakdown voltage	V (BR) CEO	I _C = 10 mA, I _B = 0	230	_	_	V
DC current gain	h _{FE}	V _{CE} = 5 V, I _C = 100 mA	100	_	320	
Collector-emitter saturation voltage	V _{CE (sat)}	I _C = 500 mA, I _B = 50 mA	_	_	1.5	V
Base-emitter voltage	V _{BE}	V _{CE} = 5 V, I _C = 500 mA	_	_	1.0	V
Transition frequency	f _T	V _{CE} = 10 V, I _C = 100 mA	—	100	_	MHz
Collector output capacitance	C _{ob}	V _{CB} = 10 V, I _E = 0, f = 1 MHz	_	20	_	pF

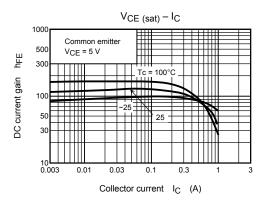
Marking

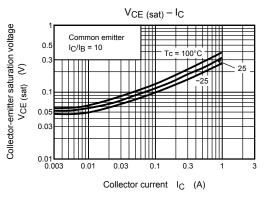


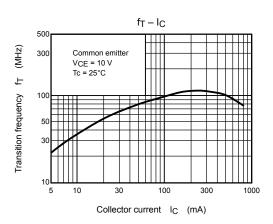
TOSHIBA

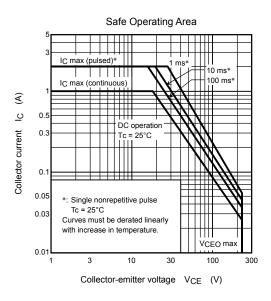












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