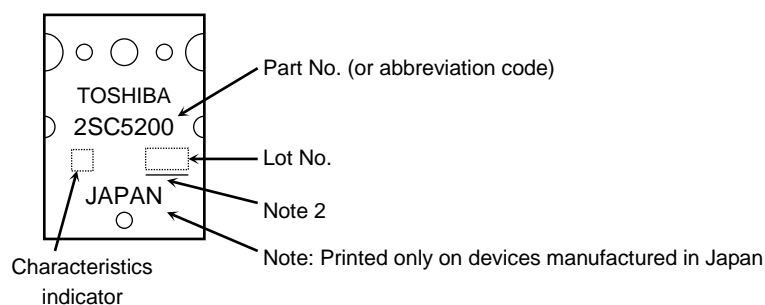


Electrical Characteristics (Ta = 25°C)

Characteristics	Symbol	Test Condition	Min	Typ.	Max	Unit
Collector cut-off current	ICBO	V _{CB} = 230 V, I _E = 0 A	—	—	5.0	μA
Emitter cut-off current	IEBO	V _{EB} = 5 V, I _C = 0 A	—	—	5.0	μA
Collector-emitter breakdown voltage	V (BR) CEO	I _C = 50 mA, I _B = 0 A	230	—	—	V
DC current gain	h _{FE} (1) (Note)	V _{CE} = 5 V, I _C = 1 A	55	—	160	
	h _{FE} (2)	V _{CE} = 5 V, I _C = 7 A	35	60	—	
Collector-emitter saturation voltage	V _{CE} (sat)	I _C = 8 A, I _B = 0.8 A	—	0.4	3.0	V
Base-emitter voltage	V _{BE}	V _{CE} = 5 V, I _C = 7 A	—	1.0	1.5	V
Transition frequency	f _T	V _{CE} = 5 V, I _C = 1 A	—	30	—	MHz
Collector output capacitance	C _{ob}	V _{CB} = 10 V, I _E = 0 A, f = 1 MHz	—	200	—	pF

Note: h_{FE} (1) classification R: 55 to 110, O: 80 to 160

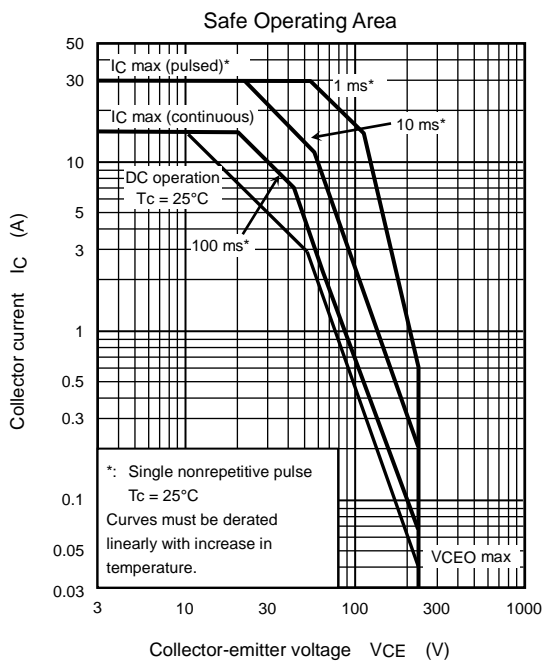
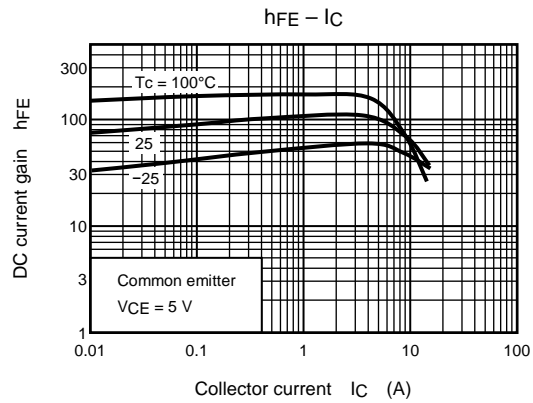
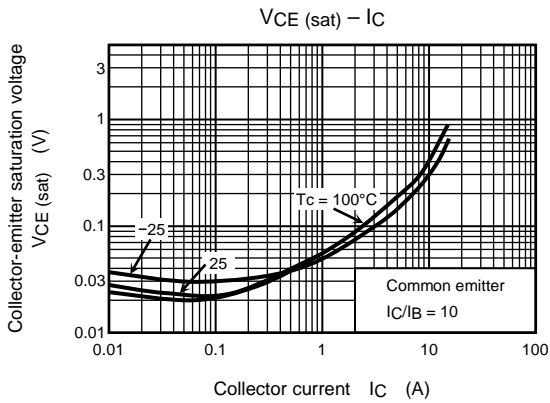
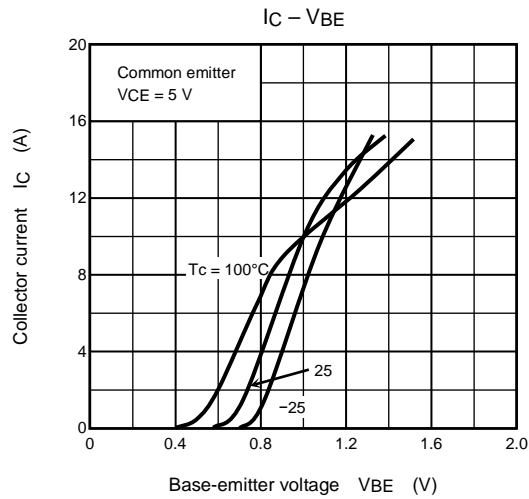
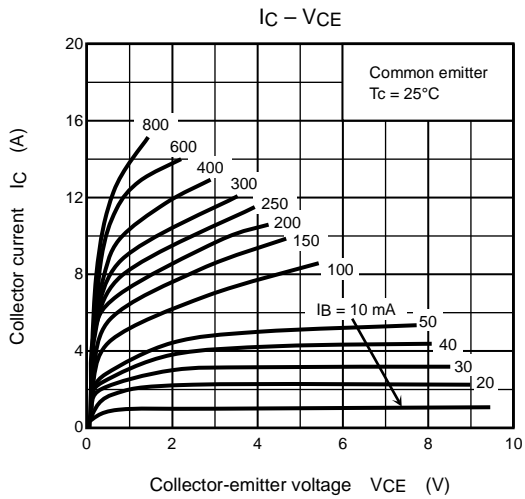
Marking

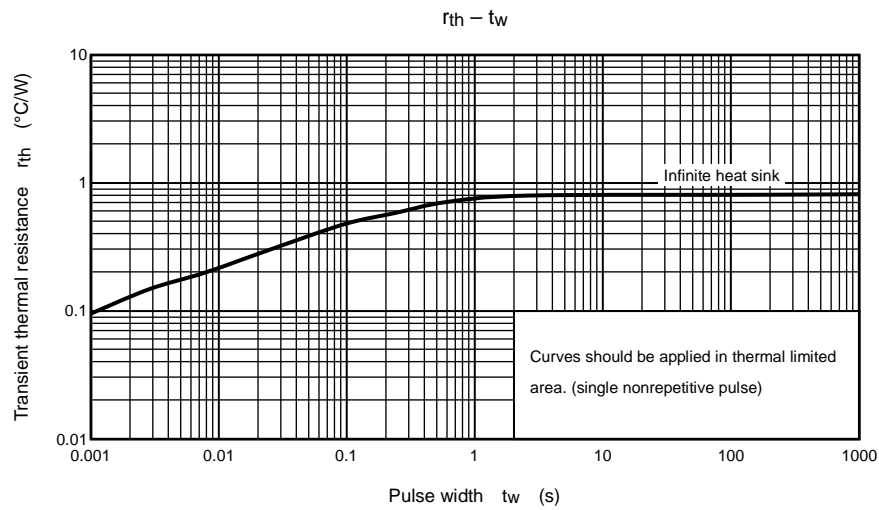


Note 2 : A line under a Lot No. identifies the indication of product Labels.
[[G]]/RoHS COMPATIBLE or [[G]]/RoHS [[Pb]]

Please contact your TOSHIBA sales representative for details as to environmental matters such as the RoHS compatibility of Product.

The RoHS is the Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment.





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