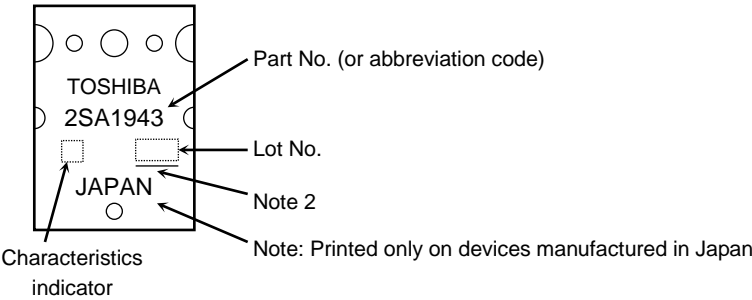


Electrical Characteristics (Ta = 25°C)

Characteristics	Symbol	Test Condition	Min	Typ.	Max	Unit
Collector cut-off current	ICBO	VCB = -230 V, IE = 0 A	—	—	-5.0	μA
Emitter cut-off current	IEBO	VEB = -5 V, IC = 0 A	—	—	-5.0	μA
Collector-emitter breakdown voltage	V (BR) CEO	IC = -50 mA, IB = 0 A	-230	—	—	V
DC current gain	hFE (1) (Note 1)	VCE = -5 V, IC = -1 A	55	—	160	
	hFE (2)	VCE = -5 V, IC = -7 A	35	60	—	
Collector-emitter saturation voltage	VCE (sat)	IC = -8 A, IB = -0.8 A	—	-1.5	-3.0	V
Base-emitter voltage	VBE	VCE = -5 V, IC = -7 A	—	-1.0	-1.5	V
Transition frequency	fT	VCE = -5 V, IC = -1 A	—	30	—	MHz
Collector output capacitance	Cob	VCB = -10 V, IE = 0 A, f = 1 MHz	—	360	—	pF

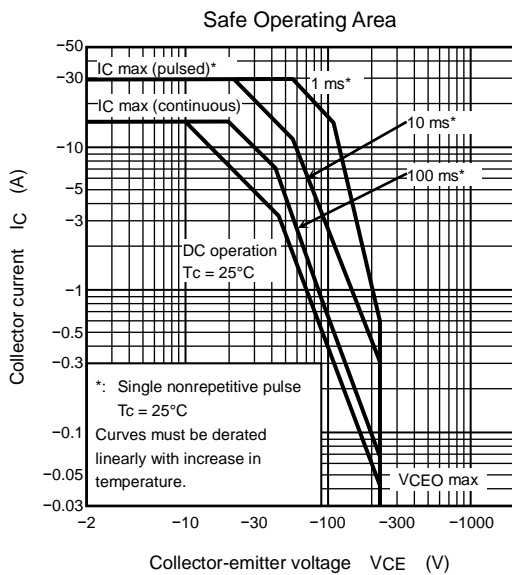
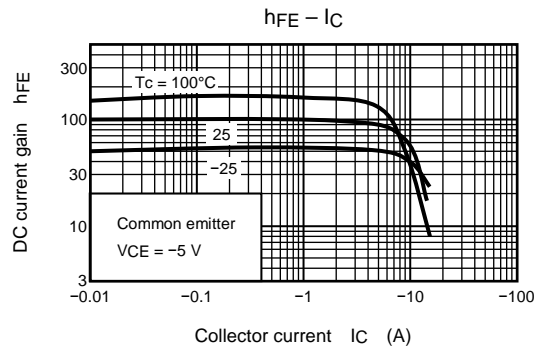
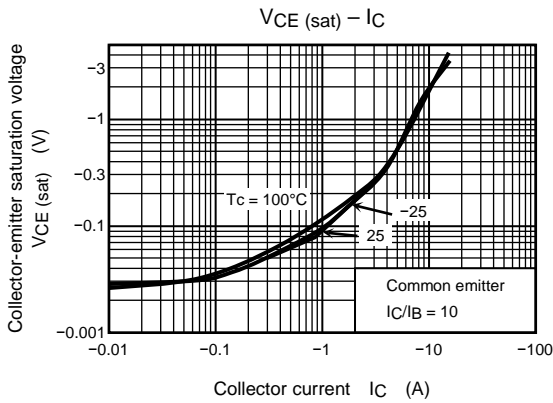
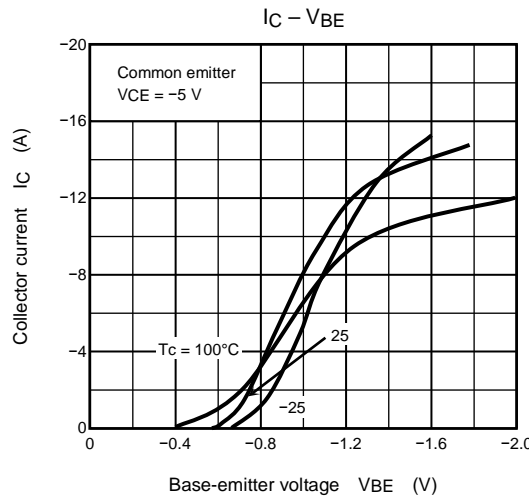
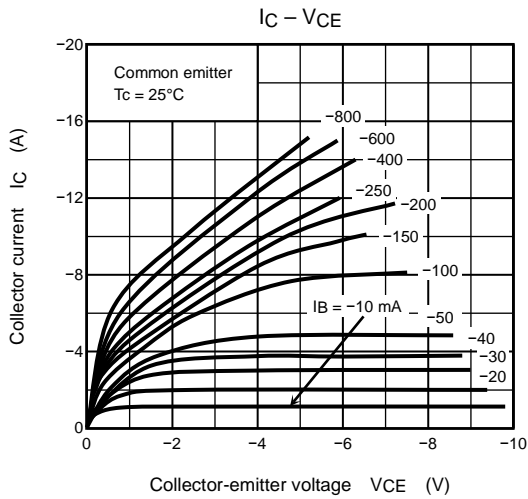
Note 1:hFE (1) classification R: 55 to 110, O: 80 to 160

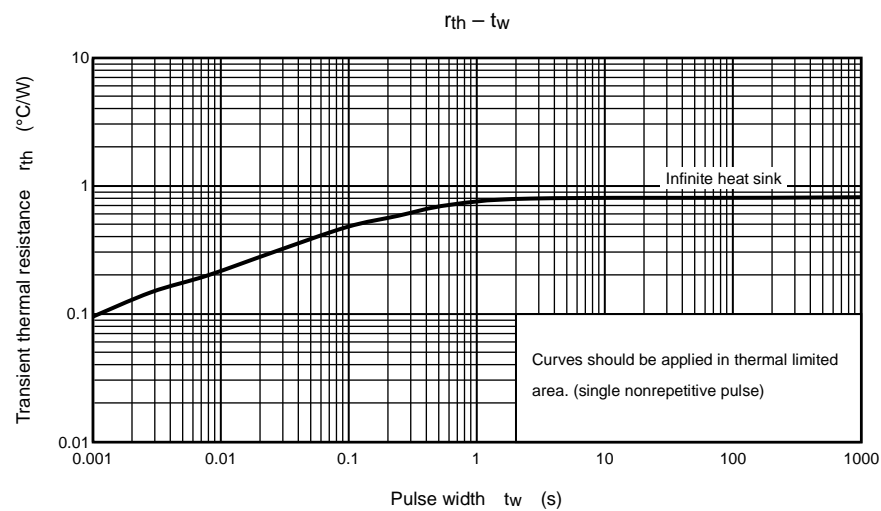
Marking



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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