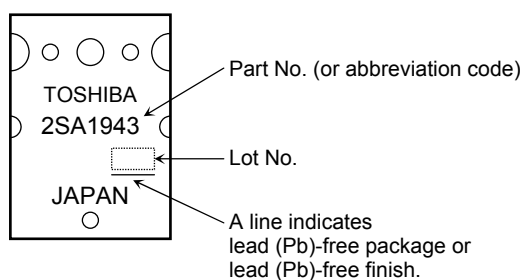


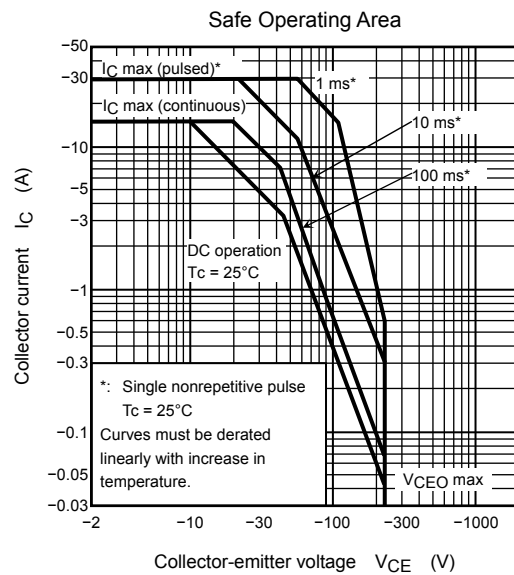
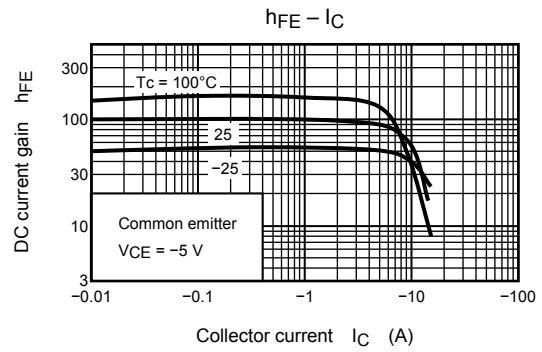
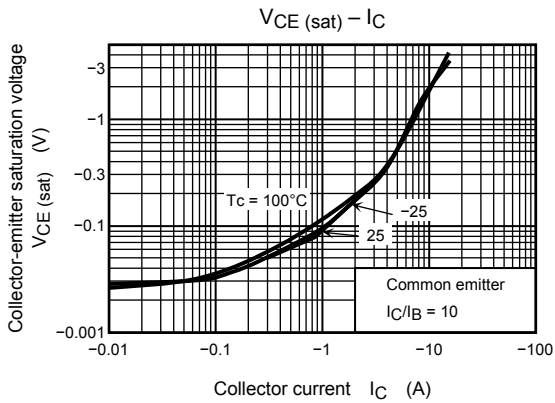
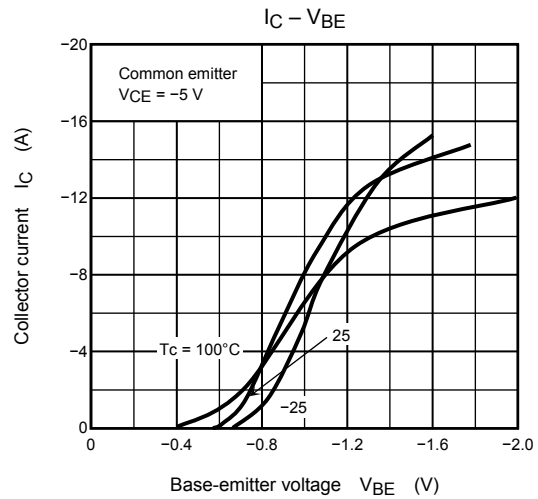
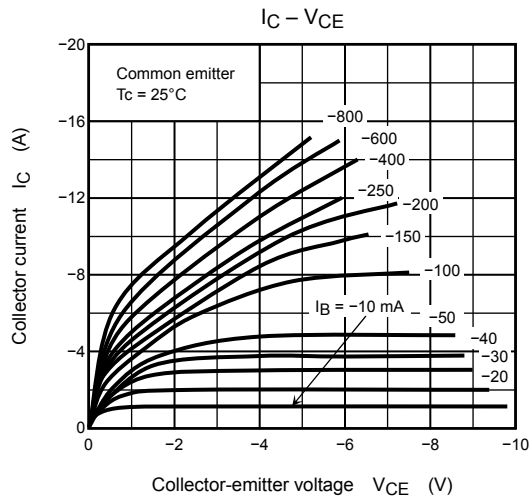
Electrical Characteristics (Ta = 25°C)

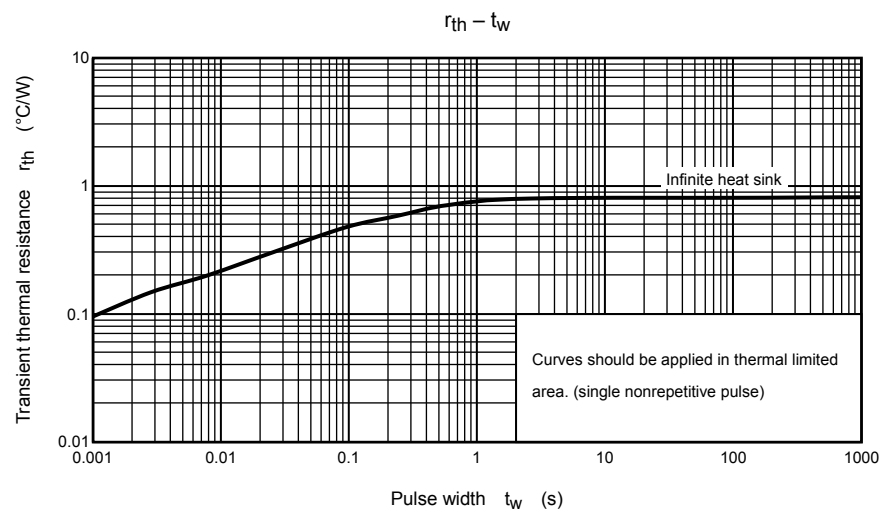
Characteristics	Symbol	Test Condition	Min	Typ.	Max	Unit
Collector cut-off current	I_{CBO}	$V_{CB} = -230\text{ V}, I_E = 0$	—	—	-5.0	μA
Emitter cut-off current	I_{EBO}	$V_{EB} = -5\text{ V}, I_C = 0$	—	—	-5.0	μA
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C = -50\text{ mA}, I_B = 0$	-230	—	—	V
DC current gain	$h_{FE(1)}$ (Note)	$V_{CE} = -5\text{ V}, I_C = -1\text{ A}$	55	—	160	
	$h_{FE(2)}$	$V_{CE} = -5\text{ V}, I_C = -7\text{ A}$	35	60	—	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = -8\text{ A}, I_B = -0.8\text{ A}$	—	-1.5	-3.0	V
Base-emitter voltage	V_{BE}	$V_{CE} = -5\text{ V}, I_C = -7\text{ A}$	—	-1.0	-1.5	V
Transition frequency	f_T	$V_{CE} = -5\text{ V}, I_C = -1\text{ A}$	—	30	—	MHz
Collector output capacitance	C_{ob}	$V_{CB} = -10\text{ V}, I_E = 0, f = 1\text{ MHz}$	—	360	—	pF

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

Marking







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20070701-EN

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