

Electrical Characteristics (Ta = 25°C)

Characteristics		Symbol	Test Condition	Min	Тур.	Max	Unit
Collector cut-off current		I _{CBO}	V _{CB} = 100 V, I _E = 0	_	_	100	nA
Emitter cut-off current		I _{EBO}	V _{EB} = 7 V, I _C = 0	_	_	100	nA
Collector-emitter breakdown voltage		V (BR) CEO	I _C = 10 mA, I _B = 0	50	_	_	٧
DC current gain		h _{FE} (1)	V _{CE} = 2 V, I _C = 0.1 A	400	_	1000	
		h _{FE} (2)	V _{CE} = 2 V, I _C = 0.3 A	200	_	_	
Collector-emitter saturation voltage		V _{CE} (sat)	I _C = 300 mA, I _B = 6 mA	_	_	0.17	V
Base-emitter saturation voltage		V _{BE} (sat)	I _C = 300 mA, I _B = 6 mA	_	_	1.10	V
Collector output capacitance		C _{ob}	V _{CB} = 10 V, I _E = 0, f = 1 MHz	_	5	_	pF
Switching time	Rise time	t _r	See Figure 1. $V_{CC} \approx 30 \text{ V, R}_L = 100 \Omega$ $I_{B1} = 10 \text{ mA,} I_{B2} = 10 \text{ mA}$	_	35	_	ns
	Storage time	t _{stg}		_	680	_	
	Fall time	t _f		_	85	_	

Marking

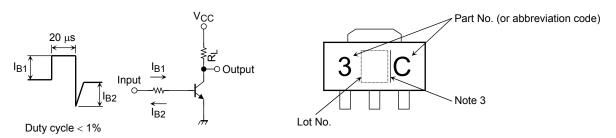


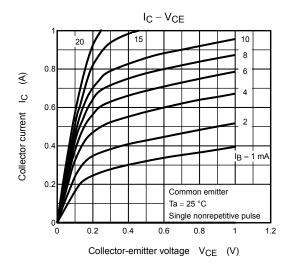
Figure 1 Switching Time Test Circuit & Timing Chart

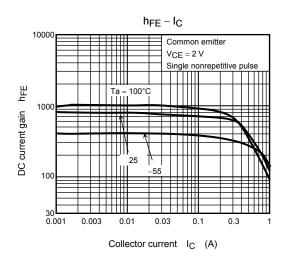
Note 3: A line to the right of a Lot No. identifies the indication of product Labels.

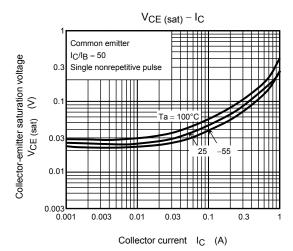
Without a line: [[Pb]]/INCLUDES > MCV

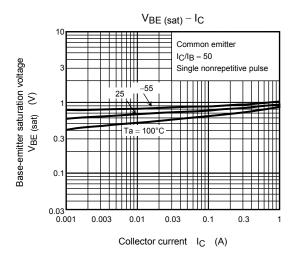
With a line: [[G]]/RoHS COMPATIBLE or [[G]]/RoHS [[Pb]]

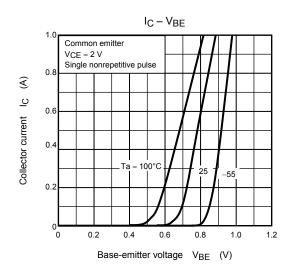
Please contact your TOSHIBA sales representative for details as to environmental matters such as the RoHS compatibility of Product. The RoHS is the Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

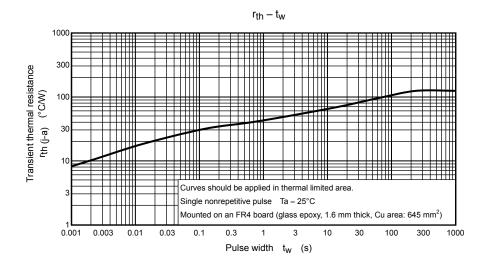


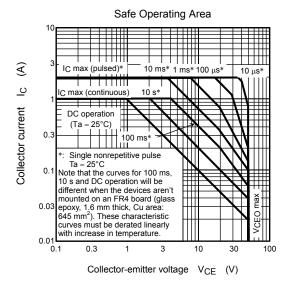












4

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5