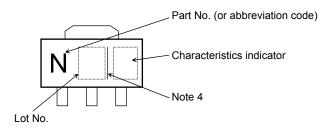


Electrical Characteristics (Ta = 25°C)

| Characteristics | | Symbol | Test Condition | Min | Тур. | Max | Unit |
|--------------------------------------|--------------|---------------------------------|--|-----|------|------|------|
| Collector cut-off current | | I _{CBO} | $V_{CB} = -50 \text{ V}, I_E = 0$ | _ | _ | -0.1 | μA |
| Emitter cut-off current | | I _{EBO} | V _{EB} = -5 V, I _C = 0 | _ | _ | -0.1 | μA |
| Collector-emitter breakdown voltage | | V (BR) CEO | $I_C = -10 \text{ mA}, I_B = 0$ | -50 | _ | _ | V |
| DC current gain | | h _{FE (1)} (Note 3) | V _{CE} = -2 V, I _C = -0.5 A | 70 | _ | 240 | |
| | | h _{FE} (2) | V _{CE} = -2 V, I _C = -2.0 A | 20 | _ | _ | |
| Collector-emitter saturation voltage | | V _{CE} (sat) | I _C = -1 A, I _B = -0.05 A | _ | _ | -0.5 | V |
| Base-emitter saturation voltage | | V _{BE} (sat) | I _C = -1 A, I _B = -0.05 A | _ | _ | -1.2 | V |
| Transition frequency | | f _T | $V_{CE} = -2 \text{ V}, I_{C} = -0.5 \text{ A}$ | _ | 120 | _ | MHz |
| Collector output capacitance | | C _{ob} | V _{CB} = -10 V, I _E = 0, f = 1 MHz | _ | 40 | _ | pF |
| Switching time | Turn-on time | t _{on} | IB2 OUTPUT IB2 CG INPUT IB1 SS 20 µs | _ | 0.1 | _ | |
| | Storage time | t _{stg} | | ı | 1.0 | _ | μs |
| | Fall time | t _f | I _{B1} = 0.05 A,I _{B2} = 0.05 A DUTY CYCLE ≤ 1% | _ | 0.1 | _ | |

Note 3: $h_{FE\ (1)}$ classification O: 70 to 140, Y: 120 to 240

Marking

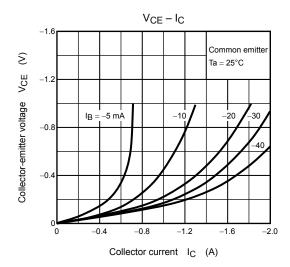


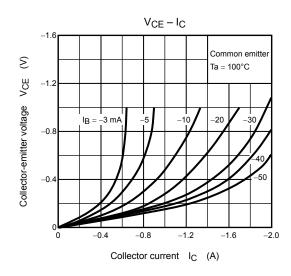
Note 4: A line beside a Lot No. identifies the indication of product Labels.

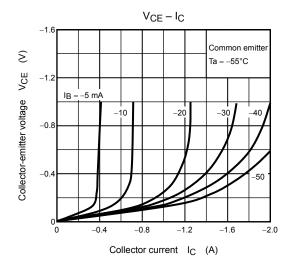
Without a line: [[Pb]]/INCLUDES > MCV

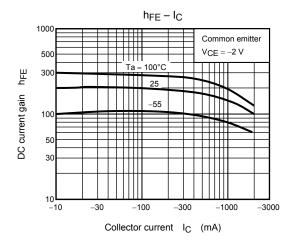
With a line: [[G]]/RoHS COMPATIBLE or [[G]]/RoHS [[Pb]]

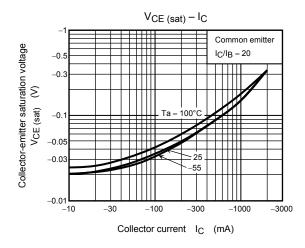
Please contact your TOSHIBA sales representative for details as to environmental matters such as the RoHS compatibility of Product. The RoHS is the Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical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

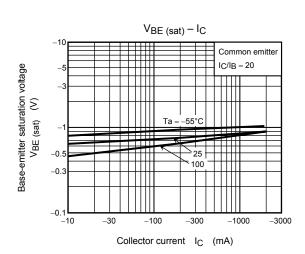




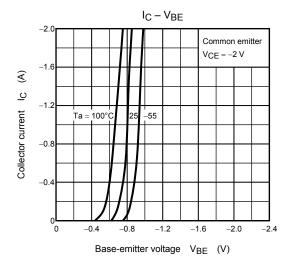


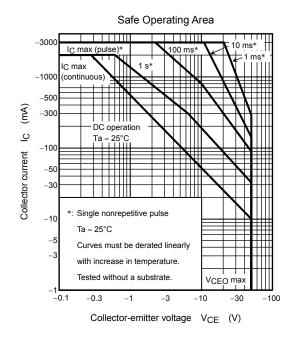


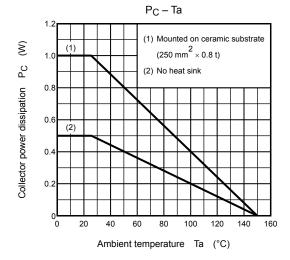




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