

TOSHIBA Transistor Silicon NPN Epitaxial Type (PCT process)

2SC3265

Low Frequency Power Amplifier Applications Power Switching Applications

High DC current gain: hFE (1) = 100 to 320
 Low saturation voltage: VCE (sat) = 0.4 V (max)
 (IC = 500 mA, IB = 20 mA)

• Complementary to 2SA1298

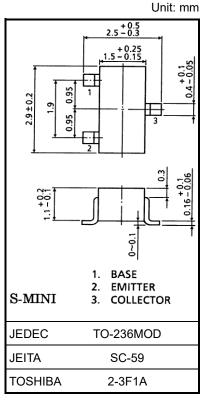
1. Absolute Maximum Ratings (Note) (Ta = 25°C)

Characteristics	Symbol	Rating	Unit	
Collector-base voltage	V _{CBO}	30	V	
Collector-emitter voltage	VCEO	25	V	
Emitter-base voltage	VEBO	5	V	
Collector current	Ic	800	mA	
Base current	lΒ	160	mA	
Collector power dissipation	PC	200	mW	
Junction temperature	Tj	150	°C	
Storage temperature range	T _{stg}	-55 to 150	°C	

Note: Using continuously under heavy loads (e.g. the application of high temperature/current/voltage and the significant change in temperature,

etc.) may cause this product to decrease in the reliability significantly even if the operating conditions (i.e. operating temperature/current/voltage, etc.) are within the absolute maximum ratings.

Please design the appropriate reliability upon reviewing the Toshiba Semiconductor Reliability Handbook ("Handling Precautions"/"Derating Concept and Methods") and individual reliability data (i.e. reliability test report and estimated failure rate, etc).



Weight: 0.012 g (typ.)

Start of commercial production 1982-10

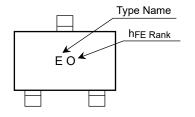


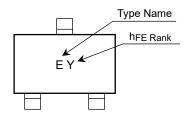
2. Electrical Characteristics (Note) (Ta = 25°C)

Characteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Collector cut-off current	I _{CBO}	V _{CB} = 30 V, I _E = 0 A	_	_	0.1	μΑ
Emitter cut-off current	IEBO	V _{EB} = 5 V, I _C = 0 mA	_	_	0.1	μΑ
Collector-emitter breakdown voltage	V (BR) CEO	IC = 10 mA, IB = 0 mA	25	_	_	V
Emitter-base breakdown voltage	V (BR) EBO	$I_E = 0.1 \text{ mA}, I_C = 0 \text{ mA}$	5	_	_	V
DC current gain	hFE (1) (Note)	VCE = 1 V, IC = 100 mA	100	_	320	
	hFE (2)	VCE = 1 V, IC = 800 mA	40	_	_	
Collector-emitter saturation voltage	VCE (sat)	Ic = 500 mA, I _B = 20 mA	_	_	0.4	V
Base-emitter voltage	V _{BE}	V _{CE} = 1 V, I _C = 10 mA	0.5	_	0.8	V
Transition frequency	f⊤	V _{CE} = 5 V, I _C = 10 mA		120		MHz
Collector output capacitance	C _{ob}	V _{CB} = 10 V, I _E = 0 A, f = 1 MHz	_	13	_	pF

Note: hFE (1) classification O: 100 to 200, Y: 160 to 320

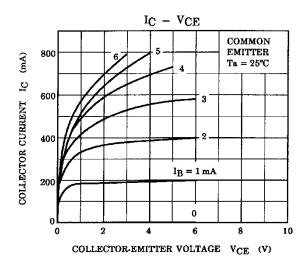
3. Marking

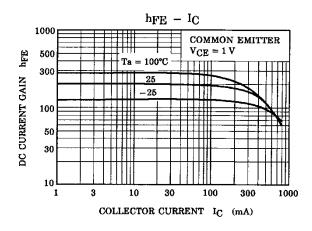


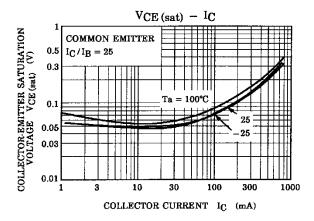


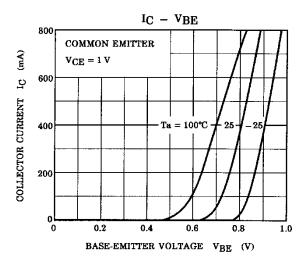


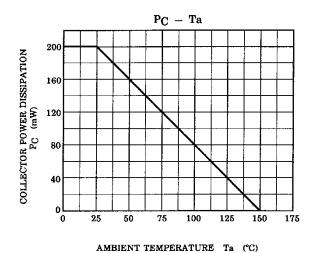
4. Characteristics Curves (Note)











Note: The above characteristics curves are presented for reference only and not guaranteed by production test, unless otherwise noted.



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