Unit: mm

TOSHIBA Transistor Silicon PNP Epitaxial Type (PCT process)

2SA1483

High Frequency Amplifier Applications Video Amplifier Applications High Speed SwitcHing Applications

- High transition frequency: f_T = 200 MHz (typ.)
- Low collector output capacitance: C_{0b} = 3.5 pF (typ.)
- Complementary to 2SC3803

Maximum Ratings (Ta = 25°C)

Characteristics	Symbol	Rating	Unit	
Collector-base voltage	V _{CBO}	-60	V	
Collector-emitter voltage	V_{CEO}	-45	V	
Emitter-base voltage	V _{EBO}	-5	V	
Continuous collector current	Ic	-200	mA	
Continuous base current	ΙΒ	-50	mA	
Collector power dissipation	P _C	500	mW	
	P _C (Note 1)	1000		
Junction temperature	Tj	150	°C	
Storage temperature range	T _{stg}	−55 to 150	°C	

Note 1: Mounted on ceramic substrate (250 mm² × 0.8 t)

4.6MAX. 1.6MAX. 1.6MAX. 1.6MAX. 1.7MAX. 0.4±0.05

0.45-0.05

0.4-0.05

1.5±0.1

1. Base
2. Collector (heat sink)
3. Emitter

PW-MINI

JEDEC

JEITA

SC-62

TOSHIBA

2.6MAX. 1.6MAX. 1.

Weight: 0.05 g (typ.)

2SA1483

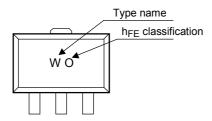


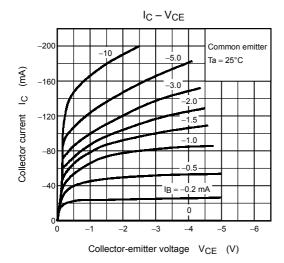
Electrical Characteristics (Ta = 25°C)

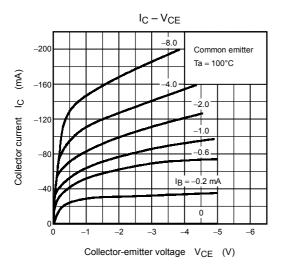
Chara	acteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Collector cut-off of	current	I _{CBO}	$V_{CB} = -45 \text{ V}, I_E = 0$	_	_	-0.1	μΑ
Emitter cut-off cu	rrent	I _{EBO}	V _{EB} = -5 V, I _C = 0	-	_	-0.1	μΑ
DC current gain		h _{FE (1)} (Note 2)	V _{CE} = -1 V, I _C = -10 mA	40	_	240	
		h _{FE (2)}	$V_{CE} = -3 \text{ V, } I_{C} = -200 \text{ mA}$	20	_	_	
Collector-emitter	saturation voltage	V _{CE (sat)}	$I_C = -100 \text{ mA}, I_B = -10 \text{ mA}$	_	_	-0.3	٧
Base-emitter satu	ıration voltage	V _{BE (sat)}	$I_C = -100 \text{ mA}, I_B = -10 \text{ mA}$	_	_	-1.0	V
Transition freque	ncy	f _T	$V_{CE} = -10 \text{ V}, I_{C} = -10 \text{ mA}$	100	200	_	MHz
Input impedance (real part)		Re (h _{ie})	V _{CE} = -10 V, I _E = 10 mA, f = 200 MHz	_	_	120	Ω
Collector output capacitance		C _{ob}	V _{CB} = -10 V, I _E = 0, f = 1 MHz	_	3.5	5	pF
Switching time	Turn-on time	t _{on}	OUTPUT INPUT 680 Ω C C C C C C C C C C C C C	_	40	_	
	Storage time	t _{stg}			250	_	ns
	Fall time	t _f		_	30	_	

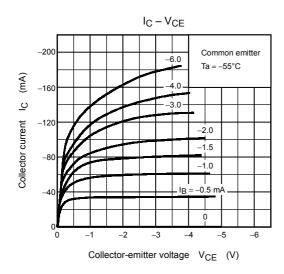
Note 2: $h_{FE\ (1)}$ classification R: 40 to 80, O: 70 to 140, Y: 120 to 240

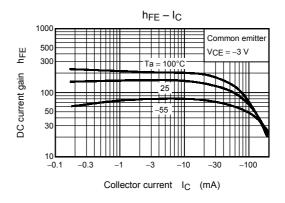
Marking

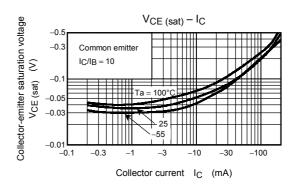


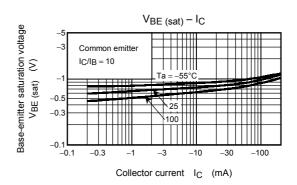


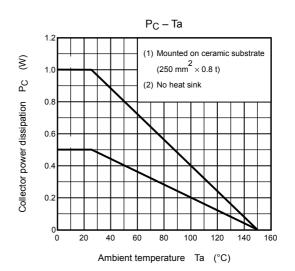












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