TOSHIBA Transistor Silicon PNP Epitaxial Type (PCT process)

2SA1483

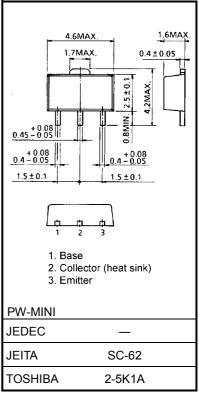
High Frequency Amplifier Applications Video Amplifier Applications High Speed SwitcHing Applications

- High transition frequency: f_{T} = 200 MHz (typ.)
- Low collector output capacitance: $C_{ob} = 3.5 \text{ pF}$ (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	Ι _C	-200	mA	
Continuous base current	Ι _Β	-50	mA	
Collector power dissipation	P _C	500	mW	
	P _C	1000		
	(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)



Weight: 0.05 g (typ.)

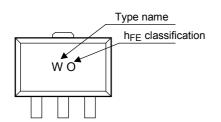
Unit: mm

Electrical Characteristics (Ta = 25°C)

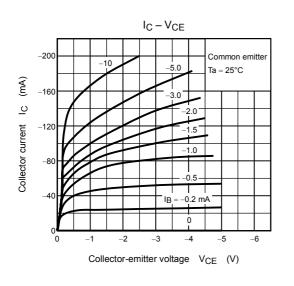
Chara	acteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Collector cut-off of	current	I _{CBO}	V _{CB} = -45 V, I _E = 0		—	-0.1	μA
Emitter cut-off current I _{EBO}		$V_{EB} = -5 V, I_C = 0$		_	-0.1	μA	
DC current gain (No		h _{FE (1)} (Note 2)	V _{CE} = -1 V, I _C = -10 mA	40	_	240	
		h _{FE (2)}	V_{CE} = -3 V, I _C = -200 mA	20	_	_	
Collector-emitter	saturation voltage	V _{CE (sat)}	I _C = -100 mA, I _B = -10 mA	_	-	-0.3	V
Base-emitter saturation voltage		V _{BE (sat)}	I _C = -100 mA, I _B = -10 mA	_	-	-1.0	V
Transition frequency		fT	$V_{CE} = -10 \text{ V}, I_C = -10 \text{ mA}$	100	200	_	MHz
Input impedance (real part) Re		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 0 -10 V 1 μ s V V_{BB} = -12 V V_{BB} = -12 V V_{CC} V_{BB} = -12 V V V V V V V V	_	40	_	
	Storage time	t _{stg}		_	250	_	ns
	Fall time	t _f		_	30	_	

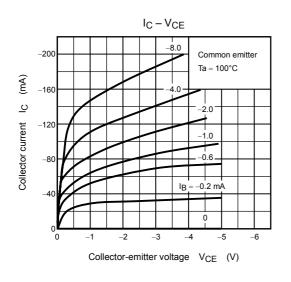
Note 2: $h_{FE(1)}$ classification R: 40 to 80, O: 70 to 140, Y: 120 to 240

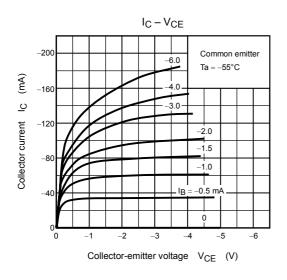
Marking

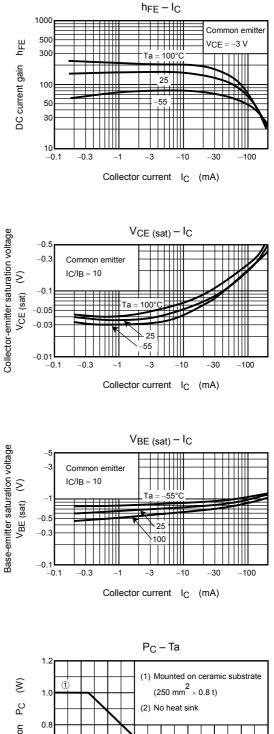


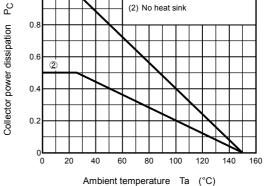
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