

TOSHIBA TRANSISTOR SILICON PNP EPITAXIAL TYPE (PCT PROCESS)

2SA1483

HIGH FREQUENCY AMPLIFIER APPLICATIONS

VIDEO AMPLIFIER APPLICATIONS

HIGH SPEED SWITCHING APPLICATIONS

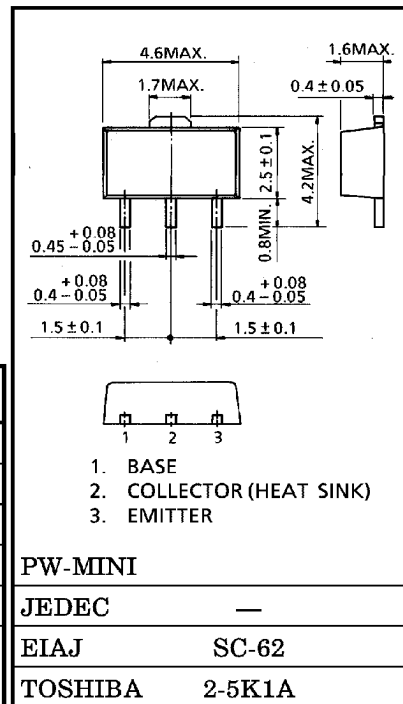
- High Transition Frequency : $f_T = 200\text{MHz}$ (Typ.)
- Low Collector Output Capacitance : $C_{ob} = 3.5\text{pF}$ (Typ.)
- Complementary to 2SC3803

MAXIMUM RATINGS ($T_a = 25^\circ\text{C}$)

CHARACTERISTIC	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	I_C	-200	mA
Continuous Base Current	I_B	-50	mA
Collector Power Dissipation	P_C	500	mW
	P_C^*	1000	
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	-55~150	$^\circ\text{C}$

* : Mounted on ceramic substrate ($250\text{mm}^2 \times 0.8\text{t}$)

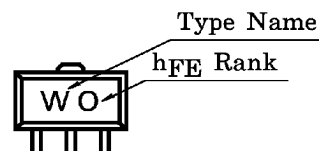
Unit in mm



PW-MINI	
JEDEC	—
EIAJ	SC-62
TOSHIBA	2-5K1A

Weight : 0.05g

Marking



961001EAA2

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ELECTRICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT				
Collector Cut-off Current	ICBO	V _{CB} = -45V, I _E = 0	—	—	-0.1	μA				
Emitter Cut-off Current	I _{EBO}	V _{EB} = -5V, I _C = 0	—	—	-0.1	μA				
DC Current Gain	h _{FE} (1) (Note)	V _{CE} = -1V, I _C = -10mA	40	—	240					
	h _{FE} (2)	V _{CE} = -3V, I _C = -200mA	20	—	—					
Collector-Emitter Saturation Voltage	V _{CE (sat)}	I _C = -100mA, I _B = -10mA	—	—	-0.3	V				
Base-Emitter Saturation Voltage	V _{BE (sat)}	I _C = -100mA, I _B = -10mA	—	—	-1.0	V				
Transition Frequency	f _T	V _{CE} = -10V, I _C = -10mA	100	200	—	MHz				
Input Impedance (Real Part)	Re (h _{ie})	V _{CE} = -10V, I _E = 10mA, f = 200MHz	—	—	120	Ω				
Collector Output Capacitance	C _{ob}	V _{CB} = -10V, I _E = 0, f = 1MHz	—	3.5	5	pF				
Switching Time	Turn-on Time	t _{on}	<p style="text-align: center;"> INPUT 680Ω OUTPUT -10V 50Ω 50Ω 200Ω 1μs V_{BB} V_{CC} = 3V = -12V DUTY CYCLE ≤ 2% </p>				—	40	—	ns
	Storage Time	t _{stg}					—	250	—	
	Fall Time	t _f					—	30	—	

Note : h_{FE} (1) Classification R : 40~80, O : 70~140, Y : 120~240

