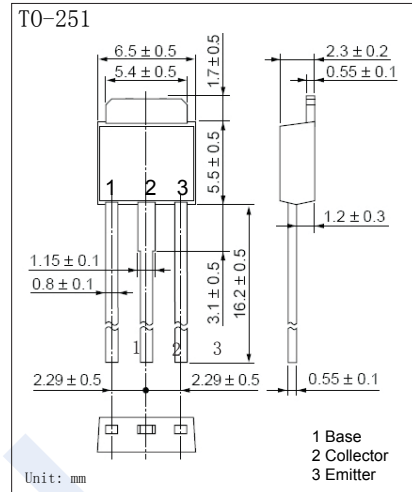


PNP Transistors 2SA1244

■ Features

- Low collector saturation voltage
- High speed switching time: $t_{stg} = 1.0 \mu s$ (typ.)
- Complementary to 2SC3074



■ Absolute Maximum Ratings $T_a = 25^\circ C$

Parameter	Symbol	Rating	Unit	
Collector - Base Voltage	V_{CBO}	-60	V	
Collector - Emitter Voltage	V_{CEO}	-50		
Emitter - Base Voltage	V_{EBO}	-5		
Collector Current - Continuous	I_C	-5	A	
Base current	I_B	-1		
Collector Power Dissipation	P_C	$T_a = 25^\circ C$	1	W
		$T_c = 25^\circ C$	20	
Junction Temperature	T_J	150	$^\circ C$	
Storage Temperature Range	T_{stg}	-55 to 150		

■ Electrical Characteristics $T_a = 25^\circ C$

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit	
Collector- base breakdown voltage	V_{CBO}	$I_C = 100 \mu A, I_E = 0$	-60			V	
Collector- emitter breakdown voltage	V_{CEO}	$I_C = 10 mA, I_B = 0$	-50				
Emitter - base breakdown voltage	V_{EBO}	$I_E = 100 \mu A, I_C = 0$	-5				
Collector-base cut-off current	I_{CBO}	$V_{CB} = -50 V, I_E = 0$			-1	μA	
Emitter cut-off current	I_{EBO}	$V_{EB} = -5V, I_C = 0$			-1		
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = -3 A, I_B = -150 mA$			-0.4	V	
Base - emitter saturation voltage	$V_{BE(sat)}$	$I_C = -3 A, I_B = -150 mA$			-1.2		
DC current gain	$h_{FE(1)}$	$V_{CE} = -1V, I_C = -1 A$	70		240		
	$h_{FE(2)}$	$V_{CE} = -1V, I_C = -3 A$	30				
Turn-on time	t_{on}			0.1		μs	
Storage time	t_{stg}				1		
Fall time	t_f		$-I_{B1} = I_{B2} = 0.15 A, DUTY CYCLE \leq 1\%$		0.1		
Collector output capacitance	C_{ob}	$V_{CB} = -10V, I_E = 0, f = 1MHz$		170		μF	
Transition frequency	f_T	$V_{CE} = -4V, I_C = -1 A$		60		MHz	

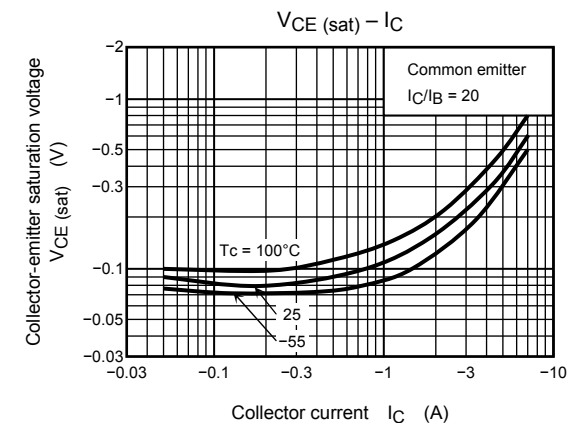
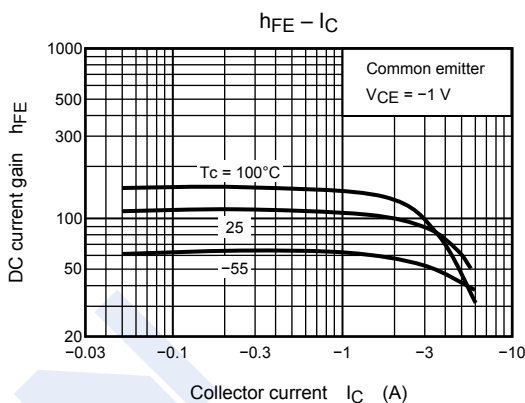
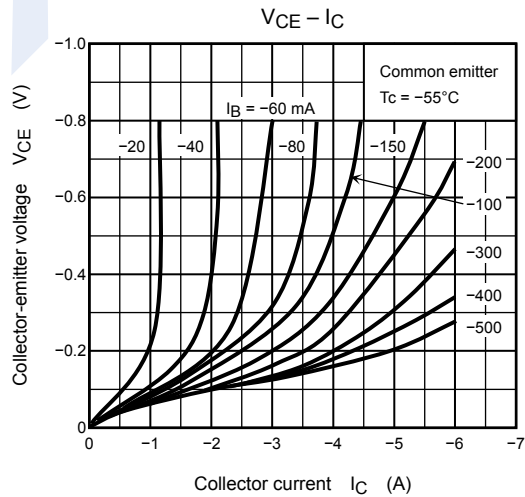
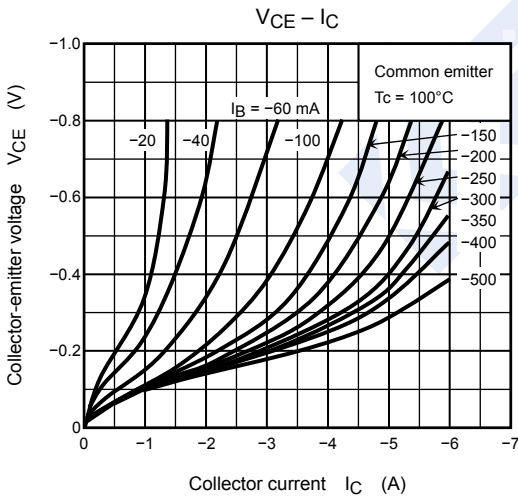
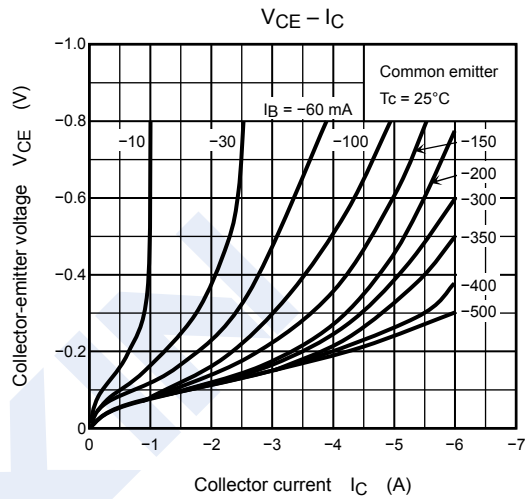
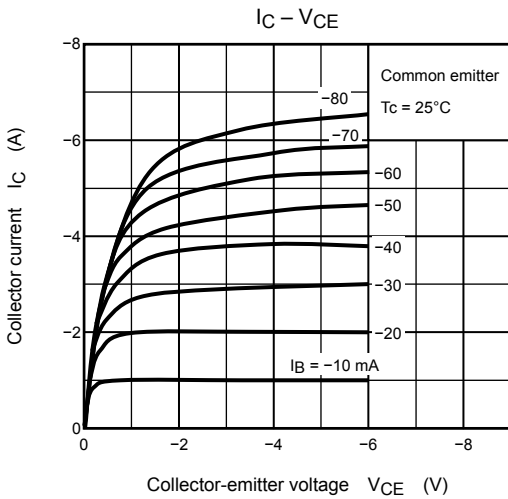
PNP Transistors

2SA1244

■ Classification of $h_{fe}(1)$

Type	2SA1244-O	2SA1244-O
Range	70-140	120-240

■ Typical Characteristics



PNP Transistors

2SA1244

Typical Characteristics

