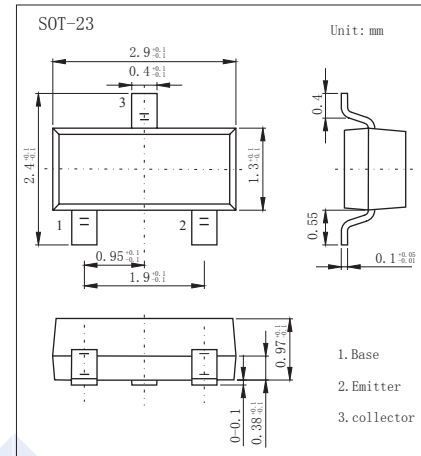


NPN Transistors

2SC3437

■ Features

- Collector Current Capability $I_c=200\text{mA}$
- Collector Emitter Voltage $V_{CE0}=15\text{V}$

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

Parameter	Symbol	Rating	Unit
Collector - Base Voltage	V_{CB0}	40	V
Collector - Emitter Voltage	V_{CE0}	15	
Emitter - Base Voltage	V_{EB0}	5	
Collector Current - Continuous	I_c	200	mA
Base Current	I_B	40	
Collector Power Dissipation	P_c	150	mW
Junction Temperature	T_J	125	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	-55 to 125	

■ Electrical Characteristics $T_a = 25^\circ\text{C}$

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector- base breakdown voltage	V_{CB0}	$I_c = 100 \mu\text{A}$, $I_E = 0$	40			V
Collector- emitter breakdown voltage	V_{CE0}	$I_c = 1 \text{mA}$, $I_B = 0$	15			
Emitter - base breakdown voltage	V_{EB0}	$I_E = 100 \mu\text{A}$, $I_c = 0$	5			
Collector-base cut-off current	I_{CBO}	$V_{CB} = 40\text{V}$, $I_E = 0$			0.1	μA
Emitter cut-off current	I_{EBO}	$V_{EB} = 5\text{V}$, $I_c = 0$			0.1	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_c = 20 \text{mA}$, $I_B = 1 \text{mA}$			0.3	V
Base - emitter saturation voltage	$V_{BE(sat)}$	$I_c = 20 \text{mA}$, $I_B = 1 \text{mA}$			1	
DC current gain	h_{FE}	$V_{CE} = 1\text{V}$, $I_c = 10\text{mA}$	40		240	
		$V_{CE} = 1\text{V}$, $I_c = 100\text{mA}$	20			
Turn-on time	t_{on}			70	ns	
Storage time	t_{stg}		15			
Fall time	t_f		30			
Collector output capacitance	C_{ob}	$V_{CB} = 10\text{V}$, $I_E = 0$, $f = 1\text{MHz}$			6	pF
Transition frequency	f_T	$V_{CE} = 10\text{V}$, $I_c = 10\text{mA}$	200			MHz

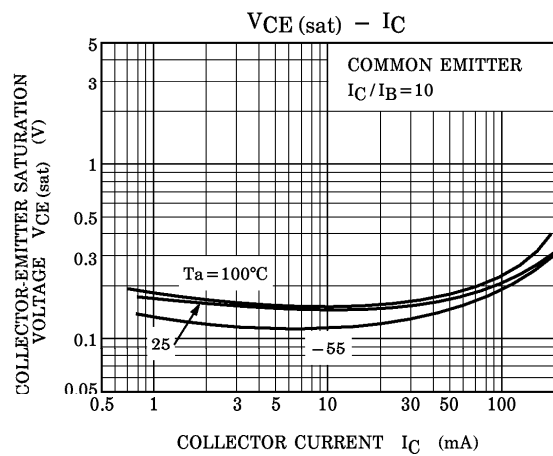
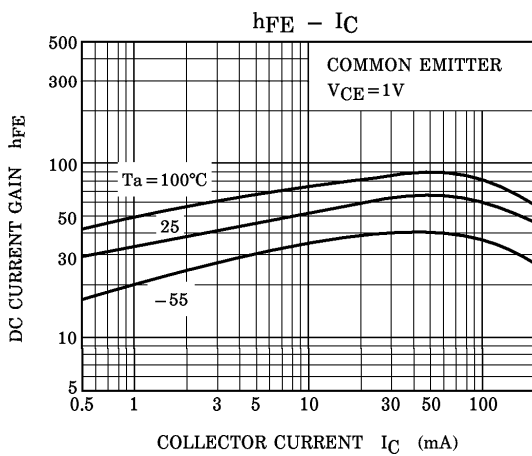
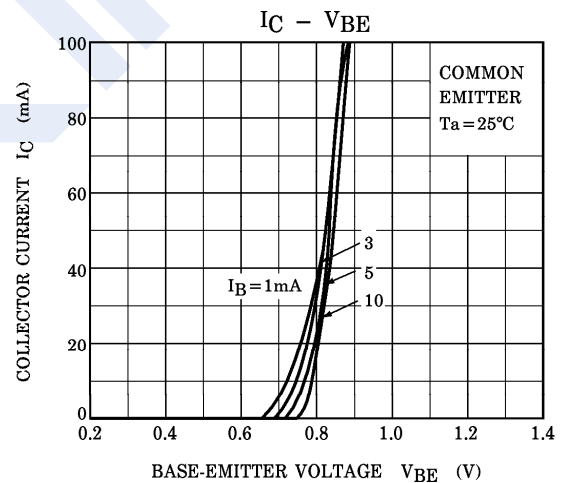
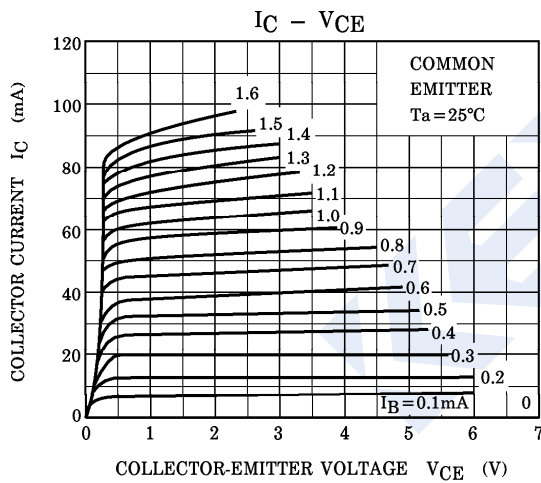
NPN Transistors

2SC3437

■ Classification of $h_{fe}(1)$

Type	2SC3437-R	2SC3437-O	2SC3437-Y
Range	40-80	70-140	120-240
Marking	CH R	CH O	CH Y

■ Typical Characteristics



NPN Transistors

2SC3437

■ Typical Characteristics

