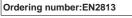
查询2SC4454供应商



捷多邦,专业PCB打样工厂,24小时加急出货

NPN Epitaxial Planar Silicon Transistor

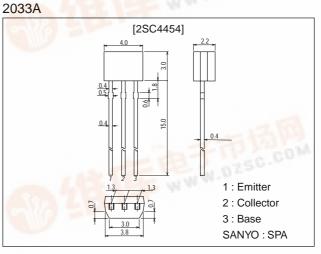
SANYO High-Speed Switching Applications

Features

- · Fast switching speed.
- \cdot Low collector saturation voltage.
- · High gain-bandwidth product.
- \cdot Small collector capacity.

Package Dimensions

unit:mm



Specifications

Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	VCBO		40	V
Collector-to-Emitter Voltage	VCES		40	V
	VCEO		15	V
Emitter-to-Base Voltage	VEBO	and the	5	V
Collector Current	IC		200	mA
Collector Current (Pulse)	ICP	A LE W	500	mA
Base Current	۱ _B		40	mA
Collector Dissipation	PC		300	mW
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg	COM	-55 to +150	°C

Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Unit
Collector Cutoff Current	ICBO	V _{CB} =20V, I _E =0		1 78	0.1	μA
Emitter Cutoff Current	IEBO	V _{EB} =3V, I _C =0	Ja-		0.1	μA
DC Current Gain	h _{FE}	V _{CE} =1V, I _C =10mA	50*	90	200*	
Gain-Bandwidth Product	fT	V _{CE} =10V, I _C =10mA	450	750		MHz
Output Capacitance	Cob	V _{CB} =5V, f=1MHz		1.6	4.0	pF

 \ast : The 2SC4454 is classified by 10mA h_{FE} as follows :

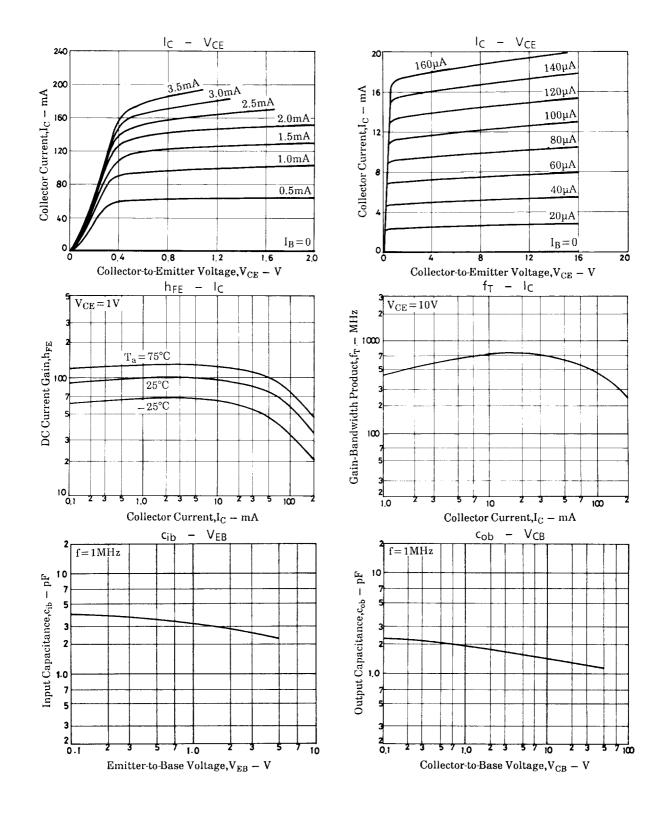
50 P 100 70 Q 140 100 R 200

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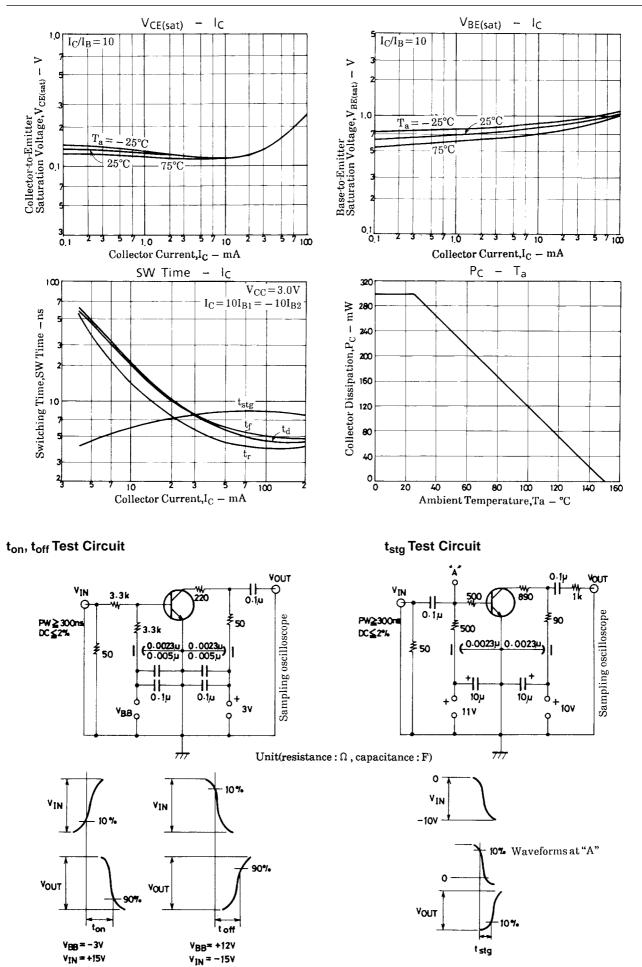
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F herein.

2SC4454

Parameter	Symbol	Conditions	Ratings			Unit
	Symbol		min	typ	max	Unit
Collector-to-Emitter Saturation Voltage	V _{CE(sat)}	I _C =10mA, I _B =1mA		0.13	0.25	V
Base-to-Emitter Saturation Voltage	V _{BE(sat)}	I _C =10mA, I _B =1mA		0.80	0.85	V
Collector-to-Base Breakdown Voltage	V _(BR) CBO	I _C =10μA, I _E =0	40			V
Collector-to-Emitter Breakdown Voltage	V(BR)CEO	I _C =1mA, R _{BE} =∞	15			V
Emitter-to-Base Breakdown Voltage	V(BR)EBO	I _E =10μA, I _C =0	5			V
Turn-ON Time	ton	See specified test circuit.		8.0	12	ns
Storage Time	tstg	See specified test circuit.		6.0	13	ns
Fall Time	tf	See specified test circuit.		12	18	ns



2SC4454



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