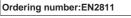
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NPN Epitaxial Planar Silicon Transistor

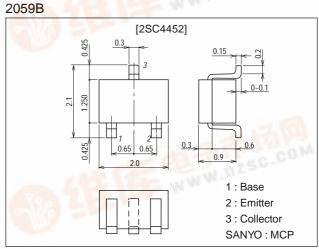
2SC4452 **High-Speed Switching Applications**

Features

- · Fast switching speed.
- · Low collector saturation voltage.
- · High gain-bandwidth product.
- · Small collector capacity.
- · Very small-sized package permitting the 2SC4452applied sets to be made small and slim.

Package Dimensions

unit:mm



Specifications

Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	V _{CBO}		40	V
Collector-to-Emitter Voltage	VCES		40	V
	V _{CEO}		15	V
Emitter-to-Base Voltage	V _{EBO}		5	V
Collector Current	ι _C	A Star Contraction	200	mA
Collector Current (Pulse)	ICP		500	mA
Base Current	IB		40	mA
Collector Dissipation	PC		150	mW
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°C

Electrical Characteristics at Ta = 25°C

Symbol	Conditions	Ratings			Unit
		min	typ	max	Unit
ICBO	V _{CB} =20V, I _E =0		-	0.1	μA
IEBO	$V_{EB}=3V$, $I_{C}=0$		-51	0.1	μA
hFE	V _{CE} =1V, I _C =10mA	50*	90	200*	
fT	V _{CE} =10V, I _C =10mA	450	750		MHz
Cob	V _{CB} =5V, f=1MHz		1.4	4.0	pF
	ICBO IEBO hFE fT	ICBO VCB=20V, IE=0 IEBO VEB=3V, IC=0 hFE VCE=1V, IC=10mA fT VCE=10V, IC=10mA	ICBO VCB=20V, IE=0 min IEBO VEB=3V, IC=0 IEBO VEB=3V, IC=0 hFE VCE=1V, IC=10mA 50* fT VCE=10V, IC=10mA 450	Symbol Conditions min typ ICBO VCB=20V, IE=0 Image: Conditions Image: Conditing: Conditions Image: Conditions	Symbol Conditions min typ max ICBO VCB=20V, IE=0 0.1 0.1 IEBO VEB=3V, IC=0 0.1 0.1 hFE VCE=1V, IC=10mA 50* 90 200* fT VCE=10V, IC=10mA 450 750

: The 2SC4452 is classified by 10mA h_{FE} as follows : 50 2 100 70 3 140 100 200 4 Marking : ST

h_{FE} rank : 2, 3, 4

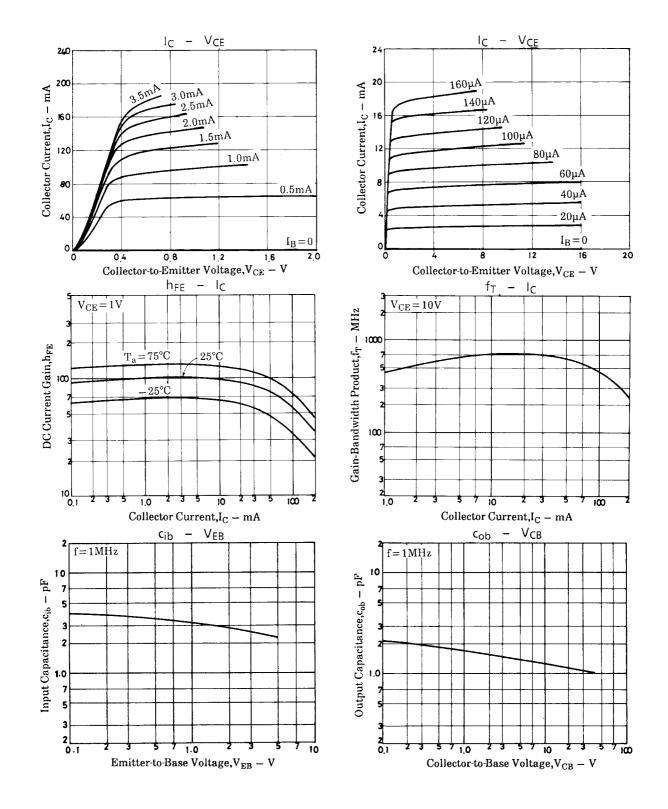
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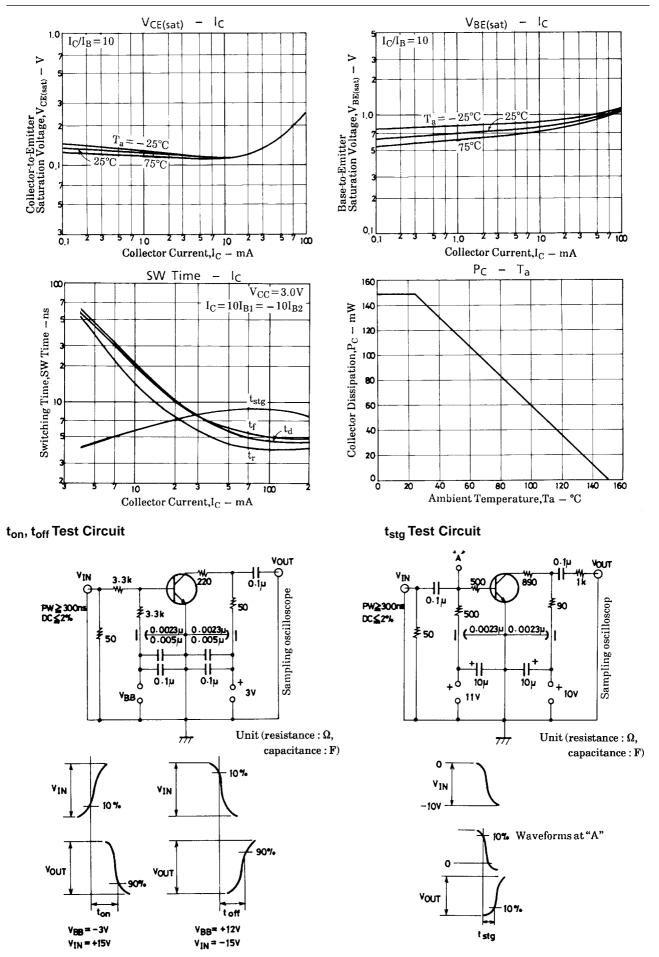
SANYO Electric Co., Ltd. Semiconductor Bussiness Headquaters TOKYO OFFICE Tokyo Bldg., 1-10, 1 Chome, Ueno, Taito-ku, TOKYO, 110-8534 JAPAN

2SC4452

Parameter	Symbol	Conditions	Ratings			Unit
			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		ns
Storage Time	tstg	See specified test circuit.		6.0		ns
Fall Time	tf	See specified test circuit.		12		ns



2SC4452



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