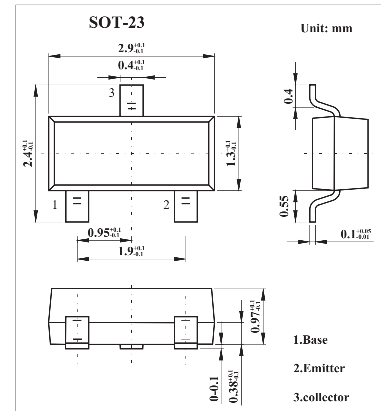
NPN Epitaxial Planar Silicon Transistors

2SC3392



■ Features

- Adoption of FBET process.
- High breakdown voltage : V_{CEO}=50V.
- Large current capacitiy and high f_T.
- Ultrasmall-sized package permitting sets to be smallsized, slim.

■ Absolute Maximum Ratings Ta = 25℃

Parameter	Symbol	Rating	Unit
Collector-base voltage	V_{CBO}	60	V
Collector-emitter voltage	V_{CEO}	50	V
Emitter-base voltage	V_{EBO}	5	V
Collector current	I_C	500	mA
Collector current (pulse)	I_{CP}	800	mA
Collector dissipation	P_C	200	mW
Jumction temperature	T_j	150	℃
Storage temperature	T_{stg}	-55 to +150	℃

■ Electrical Characteristics Ta = 25℃

Parameter	Symbol	Testconditons	Min	Typ	Max	Unit
Collector cutoff current	I_{CBO}	V_{CB} = 40V , I_E = 0			0.1	μA
Emitter cutoff current	I_{EBO}	V_{EB} = 4V , I_C = 0			0.1	μA
DC current Gain	h_{FE}	V_{CE} = 5V , I_C = 10mA	100		560	
Gain bandwidth product	f_T	V_{CE} = 10V , I_C = 50mA		300		MHz
Common base output capacitance	Cob	V_{CB} = 10V , f = 1MHz		3.7		pF
Collector-to-emitter saturation voltage	$V_{CE(sat)}$	I_C = 100mA , I_B =10mA		0.1	0.3	V
Base-to-emitter saturation voltage	$V_{BE(sat)}$	I_C = 100mA , I_B =10mA		0.8	1.2	V
Collector-to-base breakdown voltage	$V_{(BR)CBO}$	I_C = 10μA , I_E = 0	60			V
Collector-to-emitter breakdown voltage	$V_{(BR)CEO}$	I_C = 100μA , R_{BE} = ∞	50			V
Emitter-to-base breakdown voltage	$V_{(BR)EBO}$	I_E = 10μA , I_C = 0	5			V
Turn-on time	t_{on}	V_{CC} = 20V, I_C = 10I_{B1} = -10I_{B2} = 100mA		70		ns
Storage time	t_{stg}			400		ns
Fall time	t_f			70		ns

■ hFE Classification

Marking	AY			
Rank	4	5	6	7
hFE	100～200	140～280	200～400	280～560

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