2SC3757

Silicon NPN epitaxial planer type

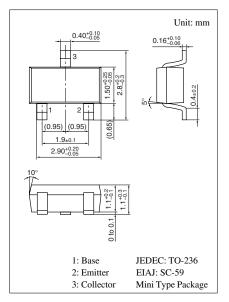
For high speed switching

■ Features

- High-speed switching
- ullet Low collector to emitter saturation voltage $V_{CE(sat)}$
- Mini type package, allowing downsizing of the equipment and automatic insertion through the tape packing and the magazine packing.
- Allowing pair use with 2SA1738

■ Absolute Maximum Ratings $T_a = 25$ °C

Parameter	Symbol	Rating	Unit
Collector to base voltage	V_{CBO}	40	V
Collector to emitter voltage	V _{CES}	40	V
Emitter to base voltage	V_{EBO}	5	V
Peak collector current	I_{CP}	300	mA
Collector current	I_C	100	mA
Collector power dissipation	P _C	200	mW
Junction temperature	T _j	150	°C
Storage temperature	T_{stg}	-55 to +150	°C



Marking Symbol: 2Y

■ Electrical Characteristics $T_a = 25$ °C ± 3 °C

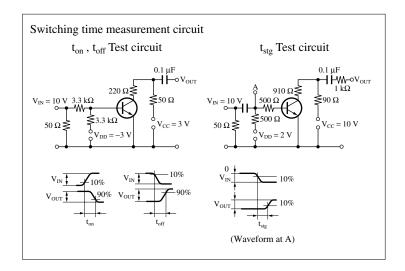
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector cutoff current	I _{CBO}	$V_{CB} = 15 \text{ V}, I_{E} = 0$			0.1	μΑ
Emitter cutoff current	I _{EBO}	$V_{EB} = 4 \text{ V}, I_{C} = 0$			0.1	μΑ
Forward current transfer ratio *	h _{FE}	$V_{CE} = 1 \text{ V}, I_{C} = 10 \text{ mA}$	60		200	
Collector to emitter saturation voltage	V _{CE(sat)}	$I_C = 10 \text{ mA}, I_B = 1 \text{ mA}$		0.17	0.25	V
Base to emitter saturation voltage	V _{BE(sat)}	$I_C = 10 \text{ mA}, I_B = 1 \text{ mA}$			1.0	V
Transition frequency	f_T	$V_{CB} = 10 \text{ V}, I_E = -10 \text{ mA}, f = 200 \text{ MHz}$		450		MHz
Collector output capacitance	C _{ob}	$V_{CB} = 10 \text{ V}, I_E = 0, f = 1 \text{ MHz}$		2	6	pF
Turn-on time	t _{on}			17		ns
Turn-off time	t _{off}	Refere to the measurement circuit		17		ns
Storage time	t _{stg}			10		ns

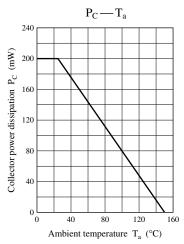
Note) *: Rank classification

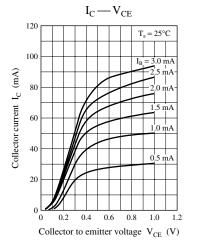
Rank	Q	R
h_{FE}	60 to 120	90 to 200
Marking symbol	2YQ	2YR

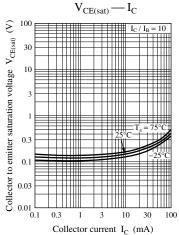
Panasonic 1

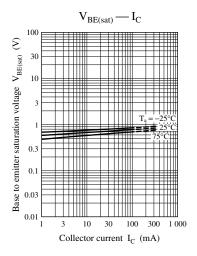
2SC3757 Transistors

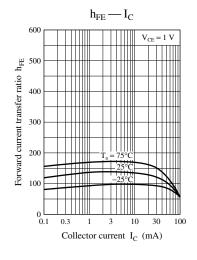




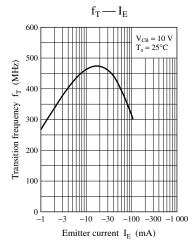


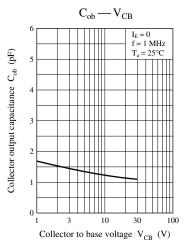






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