2SA1739

Silicon PNP epitaxial planer type

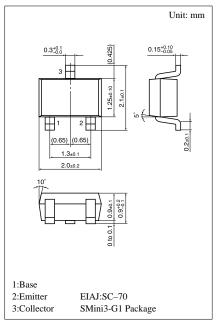
For high speed switching

Features

- High-speed switch (pair with 2SC3938)
- Low collector to emitter saturation voltage V_{CE(sat)}.
- S-Mini type package, allowing downsizing of the equipment and automatic insertion through the tape packing and the magazine packing.

Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Ratings	Unit
Collector to base voltage	V_{CBO}	-15	V
Collector to emitter voltage	V_{CEO}	-15	V
Emitter to base voltage	$V_{\rm EBO}$	-4	V
Peak collector current	I_{CP}	-100	mA
Collector current	I_C	-50	mA
Collector power dissipation	P_{C}	150	mW
Junction temperature	Tj	150	°C
Storage temperature	T_{stg}	−55 ~ +150	°C



Marking symbol: AX

Electrical Characteristics (Ta=25°C)

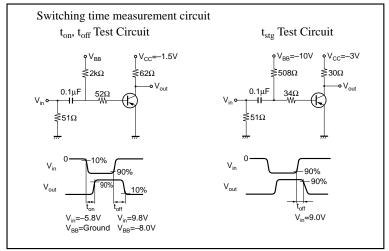
Parameter	Symbol	Conditions	min	typ	max	Unit
Collector cutoff current	I_{CBO}	$V_{CB} = -8V, I_E = 0$			- 0.1	μΑ
Emitter cutoff current	I_{EBO}	$V_{EB} = -3V, I_C = 0$			- 0.1	μΑ
Forward current transfer ratio	h _{FE1} *	$V_{CE} = -1V, I_{C} = -10mA$	50		150	
	h _{FE2}	$V_{CE} = -1V, I_{C} = -1mA$	30			
Collector to emitter saturation voltage	V _{CE(sat)}	$I_{\rm C} = -10 {\rm mA}, I_{\rm B} = -1 {\rm mA}$		- 0.1	- 0.2	V
Transition frequency	f_T	$V_{CB} = -10V$, $I_E = 10mA$, $f = 200MHz$	800	1500		MHz
Collector output capacitance	C _{ob}	$V_{CB} = -5V, I_E = 0, f = 1MHz$		1		pF
Turn-on time	t _{on}	(Note 1) Next page		12		ns
Turn-off time	t _{off}	(Note 1) Next page		20		ns
Storage time	t _{stg}	(Note 1) Next page		19		ns

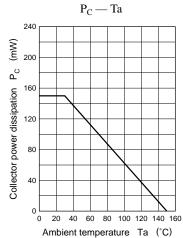
*h_{FE1} Rank classification

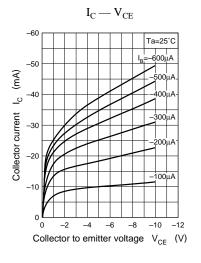
Rank	Q	R
h_{FE1}	50 ~ 120	90 ~ 150

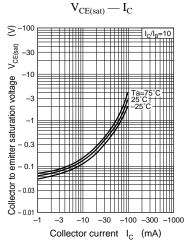
Panasonic 145

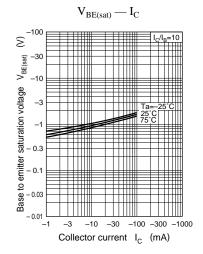
Transistor 2SA1739

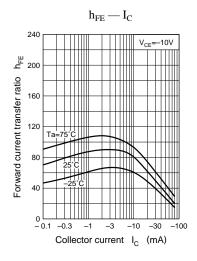


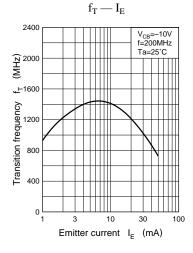


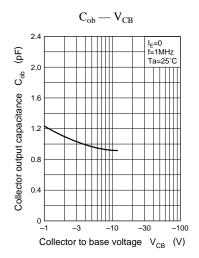












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