

PNP General Purpose Transistor

SST6839

Features

- 1) $BV_{CEO} < -40V$ ($I_C = -1mA$)
- 2) Complements the SST6838.

Package, marking, and packaging specifications

Part No.	SST6839
Packaging type	SST3
Marking	RFQ
Code	T116
Basic ordering unit (pieces)	3000

Absolute maximum ratings ($T_a = 25^\circ C$)

Parameter	Symbol	Limits	Unit
Collector-base voltage	V_{CBO}	-50	V
Collector-emitter voltage	V_{CEO}	-40	V
Emitter-base voltage	V_{EB0}	-5	V
Collector current	I_C	-0.2	A
Collector power dissipation	P_C	0.2	W
Junction temperature	T_J	150	$^\circ C$
Storage temperature	T_{stg}	-55 ~ +150	$^\circ C$

Electrical characteristics ($T_a = 25^\circ C$)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Collector-base breakdown voltage	BV_{CBO}	-50	—	—	V	$I_C = -10 \mu A$ ($T_a = -40^\circ C \sim +125^\circ C$)
Collector-emitter breakdown voltage	BV_{CEO}	-40	—	—	V	$I_C = -1mA$ ($T_a = -40^\circ C \sim +125^\circ C$)
Collector cutoff current	I_{CBO}	—	—	-0.5	μA	$V_{CB} = -30V$ ($T_a = 85^\circ C$)
		—	—	-5		$V_{CB} = -30V$ ($T_a = 125^\circ C$)
Emitter cutoff current	I_{EBO}	—	—	-0.5	μA	$V_{EB} = -4V$ ($T_a = 85^\circ C$)
		—	—	-5		$V_{EB} = -4V$ ($T_a = 125^\circ C$)
Collector-emitter saturation voltage	$V_{CE(sat)}$	—	—	-0.5	V	$I_C/I_E = -100mA/-10mA$ ($T_a = 85^\circ C$)
		—	—	-0.7		$I_C/I_E = -100mA/-10mA$ ($T_a = 125^\circ C$)
DC current transfer ratio	h_{FE1}	100	—	—	—	$V_{CE}/I_C = -5V/-1mA$ ($T_a = -40^\circ C \sim +25^\circ C$)
		—	—	800		$V_{CE}/I_C = -5V/-1mA$ ($T_a = 85^\circ C$)
		—	—	1000		$V_{CE}/I_C = -5V/-1mA$ ($T_a = 125^\circ C$)
DC current transfer ratio	h_{FE2}	100	—	—	—	$V_{CE}/I_C = -5V/-100mA$ ($T_a = -40^\circ C \sim +25^\circ C$)
Transition frequency	f_T	—	140	—	MHz	$V_{CE} = -12V$, $I_C = -2mA$, $f = 100MHz$ ($T_a = 25^\circ C$)
Collector output capacitance	C_{ob}	—	3.5	—	pF	$V_{CB} = -12V$, $I_E = 0A$, $f = 1MHz$ ($T_a = 25^\circ C$)
Emitter input capacitance	C_{ib}	—	17	—	pF	$V_{EB} = -0.5V$, $I_C = 0A$, $f = 1MHz$ ($T_a = 25^\circ C$)

Electrical characteristic curves

The electrical characteristic curves for these products are the same as those of BC858BW and BC858B.
Refer to pages 603 to 606.

External dimensions (Units : mm)

