

# 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	$V_{EBO}$	-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	$\mu A$	$V_{CB} = -30V$ ( $T_a = 85^\circ C$ )
		—	—	-5		$V_{CB} = -30V$ ( $T_a = 125^\circ C$ )
Emitter cutoff current	$I_{EBO}$	—	—	-0.5	$\mu A$	$V_{EB} = -4V$ ( $T_a = 85^\circ C$ )
		—	—	-5		$V_{EB} = -4V$ ( $T_a = 125^\circ C$ )
Collector-emitter saturation voltage	$V_{CE(sat)}$	—	—	-0.5	V	$I_C/I_B = -100mA/-10mA$ ( $T_a = 85^\circ C$ )
		—	—	-0.7		$I_C/I_B = -100mA/-10mA$ ( $T_a = 125^\circ C$ )
DC current transfer ratio	$h_{FE1}$	100	—	—	—	$V_{CE}/I_C = -5V/-1mA$ ( $T_a = -40^\circ C \sim +125^\circ C$ )
		—	—	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	—	—	—	$V_{CE}/I_C = -5V/-100mA$ ( $T_a = -40^\circ C \sim +125^\circ C$ )
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	$V_{CB} = -12V, I_C = 0A, f = 1MHz$ ( $T_a = 25^\circ C$ )
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)

