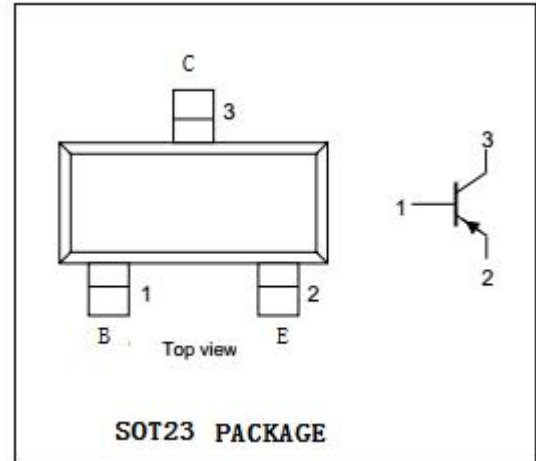


isc Silicon PNP General Purpose Transistors
BC807-40
DESCRIPTION

- High current(max. 500mA)
- Low Voltage(Min. 45V)
- NPN complement BC817-25
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- General purpose switching and amplification.


ABSOLUTE MAXIMUM RATINGS($T_a=25^{\circ}\text{C}$)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	-50	V
V_{CEO}	Collector-Emitter Voltage	-45	V
V_{EBO}	Emitter-Base Voltage	-5	V
I_C	Collector Current-Continuous	-0.5	A
P_C	Collector Power Dissipation @ $T_c=25^{\circ}\text{C}$	0.25	W
T_J	Junction Temperature	150	$^{\circ}\text{C}$
T_{stg}	Storage Temperature	-65~150	$^{\circ}\text{C}$

isc Silicon PNP General Purpose Transistors**BC807-40****ELECTRICAL CHARACTERISTICS**T_j=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{CE(sat)*}	Collector-Emitter Saturation Voltage	I _C = -500mA; I _B = -50mA		-0.7	V
V _{BE(on)}	Base-Emitter On Voltage	I _C = -500mA; V _{CE} = -1V		-1.2	V
I _{CBO}	Collector Cutoff Current	V _{CB} =-20 V; I _E = 0		-0.1	μ A
I _{EBO}	Emitter Cutoff Current	V _{EB} =-5V; I _C = 0		-0.1	μ A
H _{FE1*}	DC Current Gain	I _C = -100mA; V _{CE} = -1V	250	600	
h _{FE2*}	DC Current Gain	I _C =- 500mA; V _{CE} = -1V	40		
f _T	Current Gain-Bandwidth Product	I _C = -10mA; V _{CE} = -5V, f= 100MHz	80		MHz

*:pulse test: t_p≤300us;σ≤0.02**NOTICE:**

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