

RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

FEATURES

- Small Flat Package.
- High DC Current Gain
- Low $V_{CE(sat)}$

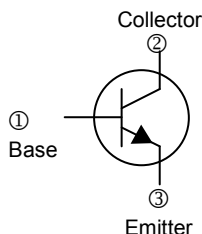
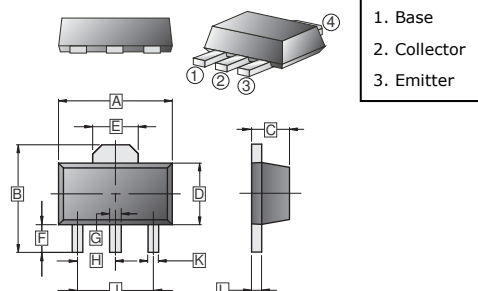
CLASSIFICATION OF h_{FE}

Rank	BCP882J-O	BCP882J-Y	BCP882J-GR
Range	100~200	160~320	200~400

PACKAGE INFORMATION

Package	MPQ	Leader Size
SOT-89	1K	7 inch

SOT-89



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	4.40	4.60	G	0.40	0.58
B	3.94	4.25	H	1.50	TYP
C	1.40	1.60	J	3.00	TYP
D	2.30	2.60	K	0.32	0.52
E	1.50	1.70	L	0.35	0.44
F	0.89	1.20			

ABSOLUTE MAXIMUM RATINGS ($T_A=25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	40	V
Collector to Emitter Voltage	V_{CEO}	30	V
Emitter to Base Voltage	V_{EBO}	6	V
Continuous Collector Current	I_C	3	A
Collector Power Dissipation	P_C	500	mW
Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	250	$^\circ\text{C} / \text{W}$
Junction and Storage Temperature	T_J, T_{STG}	150, -55~150	$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS ($T_A=25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Min	Typ	Max	Unit	Test condition
Collector to Base Breakdown Voltage	$V_{(BR)CBO}$	40	-	-	V	$I_C=100\mu\text{A}, I_E=0$
Collector to Emitter Breakdown Voltage	$V_{(BR)CEO}$	30	-	-	V	$I_C=10\text{mA}, I_B=0$
Emitter to Base Breakdown Voltage	$V_{(BR)EBO}$	6	-	-	V	$I_E=100\mu\text{A}, I_C=0$
Collector Cut-Off Current	I_{CBO}	-	-	1	μA	$V_{CB}=40\text{V}, I_E=0$
Collector Cut-Off current	I_{CEO}	-	-	10	μA	$V_{CE}=30\text{V}, I_B=0$
Emitter Cut-Off Current	I_{EBO}	-	-	1	μA	$V_{EB}=6\text{V}, I_C=0$
DC Current Gain	h_{FE}	100	-	400		$V_{CE}=2\text{V}, I_C=1\text{A}$
		32				$V_{CE}=2\text{V}, I_C=100\text{mA}$
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	-	-	0.5	V	$I_C=2\text{A}, I_B=0.2\text{A}$
Base to Emitter Saturation Voltage	$V_{BE(sat)}$	-	-	1.5	V	$I_C=2\text{A}, I_B=0.2\text{A}$
Transition Frequency	f_T	-	50	-	MHZ	$V_{CE}=5\text{V}, I_C=0.1\text{A}, f=10\text{MHZ}$

CHARACTERISTIC CURVES

Static Characteristic

