



SHENZHEN LONG JING MICRO-ELECTRONICS CO., LTD.

TO-92 Plastic-Encapsulate Transistors

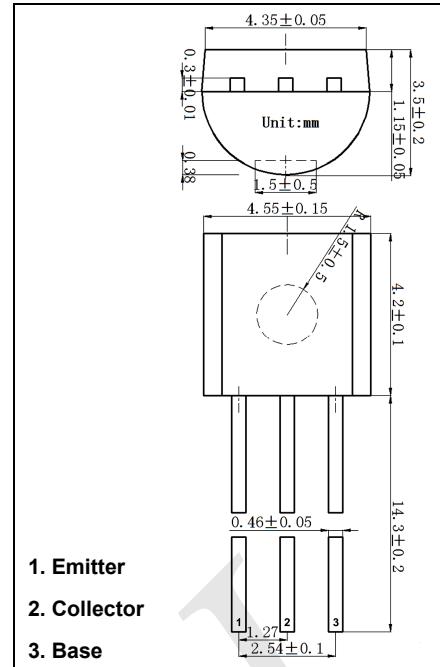
C2001L011 NPN Transistors

Features

■ High h_{FE} and Low V_{CE(sat)}

h_{FE}(I_C=100mA) : 200(Typ)

V_{CE(sat)}(700mA): 0.2V (Typ)



Maximum Ratings (T_a=25°C unless otherwise noted)

Symbol	Parameter	Value	Unit
V _{CBO}	Collector Base Voltage	30	V
V _{CEO}	Collector Emitter Voltage	25	V
V _{EBO}	Emitter Base Voltage	5	V
I _C	Collector Current	0.7	A
P _c	Collector Power Dissipation	600	mW
T _j	Junction Temperature	150	°C
T _{stg}	Storage Temperature	-55 - 150	°C

Electrical Characteristics (T_a=25°C unless otherwise specified)

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
V _{(BR)CBO}	Collector-base breakdown voltage	I _C = 100μA, I _E = 0	30			V
V _{(BR)CEO}	Collector-emitter breakdown voltage	I _C = 10mA, I _B = 0	25			V
V _{(BR)EBO}	Emitter-base breakdown voltage	I _E = 100μA, I _C = 0	5			V
I _{CBO}	Collector cut-off current	V _{CB} = 30V, I _E = 0			100	nA
I _{CEO}	Collector cut-off current	V _{CE} = 20V, I _B = 0			100	nA
I _{EBO}	Emitter cut-off current	V _{EB} = 5V, I _C = 0			100	nA
h _{FE(1)} h _{FE(2)} h _{FE(3)} h _{FE(4)}	DC current gain	V _{CE} = 5V, I _C = 1mA	90			
		V _{CE} = 5V, I _C = 10mA	90			
		V _{CE} = 1V, I _C = 100mA	90		400	
		V _{CE} = 1V, I _C = 700mA	50			
V _{CE(sat)}	Collector-emitter saturation voltage	I _C = 700mA, I _B = 70mA			0.6	V
V _{BE(sat)}	Base-emitter saturation voltage	I _C = 700mA, I _B = 70mA			1.2	V
f _T	Transition frequency	V _{CE} =6V, I _C =10mA, f=30MHz	50			MHz

Classification OF h_{FE(3)}

Rank	M	L	K
Range	19-180	135-270	200-400

Typical Characteristics

