

JIANGSU CHANGJIANG ELECTRONICS TECHNOLOGY CO., LTD

JCST SOT-23 Plastic-Encapsulate Transistors

A1015 TRANSISTOR (PNP)

FEATURES

- High voltage and high current
- Excellent h_{FE} Linearity
- Low niose
- Complementary to C1815

MARKING: BA

SOT-23 1. BASE 2. EMITTER 3. COLLECTOR

MAXIMUM RATINGS (T_A=25℃ unless otherwise noted)

Symbol	Parameter	Value	Units
V _{CBO}	Collector-Base Voltage	-50	V
V _{CEO}	Collector-Emitter Voltage	-50	V
V _{EBO}	Emitter-Base Voltage	-5	V
Ic	Collector Current -Continuous	150	mA
Pc	Collector Power Dissipation	200	mW
TJ	Junction Temperature	125	℃
T _{stg}	Storage Temperature	-55-125	℃

ELECTRICAL CHARACTERISTICS (Tamb=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	V _{(BR)CBO}	I _C = -100u A, I _E =0	-50			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C = -0.1mA, I _B =0	-50			V
Emitter-base breakdown voltage	V(BR) _{EBO}	I _E = -100 u A, I _C =0	-5			V
Collector cut-off current	I _{CBO}	V _{CB} =-50V , I _E =0			-0.1	u A
Collector cut-off current	I _{CEO}	V _{CE} = -50V , I _B =0			-0.1	u A
Emitter cut-off current	I _{EBO}	V _{EB} =- 5V, I _C =0			-0.1	u A
DC current gain	h _{FE}	V _{CE} =-6V, I _C = -2mA	130		400	
Collector-emitter saturation voltage	V _{CE} (sat)	I _C =-100 mA, I _B = -10mA			-0.3	V
Base-emitter saturation voltage	V _{BE} (sat)	I _C =-100 mA, I _B = -10mA		-1.1	V	
Transition frequency	f⊤	V _{CE} =-10V, I _C = -1mA f=30MHz	80			MHz

CLASSIFICATION OF hFE

Rank	L	Н
Range	130-200	200-400

Typical Characteristics

A1015











