



JIANGSU CHANGJIANG ELECTRONICS TECHNOLOGY CO., LTD

SOT-23-3L Plastic-Encapsulate Transistors

2SC3052

TRANSISTOR (NPN)

FEATURES

Power dissipation

P_{CM} : 0.15 W ($T_{amb}=25^{\circ}C$)

Collector current

I_{CM} : 0.2 A

Collector-base voltage

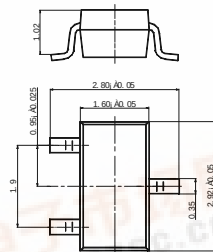
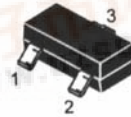
$V_{(BR)CBO}$: 50 V

Operating and storage junction temperature range

T_J, T_{stg} : $-55^{\circ}C$ to $+150^{\circ}C$

SOT-23-3L

1. BASE
2. EMITTER
3. COLLECTOR



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

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C=100\mu A, I_E=0$	50			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C=100\mu A, I_B=0$	50			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E=100\mu A, I_C=0$	6			V
Collector cut-off current	I_{CBO}	$V_{CB}=50 V, I_E=0$			0.1	μA
Emitter cut-off current	I_{EBO}	$V_{EB}=6 V, I_C=0$			0.1	μA
DC current gain	$h_{FE(1)}$	$V_{CE}=6V, I_C=1mA$	150		800	
	$h_{FE(2)}$	$V_{CE}=6V, I_C=0.1mA$	50			
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C=100 mA, I_B=10mA$			0.3	V
Base-emitter saturation voltage	$V_{BE(sat)}$	$I_C=100mA, I_B=10mA$			1	V
Transition frequency	f_T	$V_{CE}=6V, I_C=10mA$	180			MHz

CLASSIFICATION OF $h_{FE(1)}$

Marking	LE	LF	LG
Range	150-300	250-500	400-800

