



BCX53

PNP General Purpose Amplifier

Features

- Epoxy meets UL-94 V-0 flammability rating
- Halogen free available upon request by adding suffix "HF"
- Moisture Sensitivity Level 1
- Low collector-emitter saturation voltage

Mechanical Data

Package: SOT-89

Molding compound meets UL 94 V-0 flammability rating,
RoHS-compliant, halogen-free

Terminals: Tin plated leads, solderable per
J-STD-002 and JESD22-B102

Marking:

BCX53	AH
BCX53-16	

Maximum Ratings (Ta=25 unless otherwise noted)

Item	Symbol	Unit	Conditions	Value
Minimum Collector-Emitter Voltage	V_{CEO}	V	$I_C = -10\text{mA}, I_B = 0$	-80
			$c = 0$	-5
Collector Current	I_C	A		-1
Collector Power Dissipation	P_C	mW		500
Thermal Resistance From Junction To Ambient	R_{JA}	/W		250



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Electrical Characteristics (Ta=25 unless otherwise noted)

Item	Symbol	Unit	Conditions	Min	TYP	Max
Collector-Emitter Voltage	V_{CEO}	V	$I_C=-10mA, I_B=0$	-80		
Collector-Base Voltage	V_{CBO}	V	$I_C=-100\mu A, I_E=0$	-100		
Emitter-Base Voltage	V_{EBO}	V	$I_E=-100\mu A, I_C=0$	-5		
Collector-Base cut-off current	I_{CBO}	nA	$V_{CB}=-30V$			-100
	I_{EBO}		V_{EB}			
DC Current Gain	h_{FE1}		$V_{CE}=-2V, I_C=-150mA$	63		250
	h_{FE2}		$V_{CE}=-2V, I_C=-5mA$	63		
	h_{FE3}		$V_{CE}=-2V, I_C=-500mA$	40		

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