Silicon Epitaxial Planar Transistor multicomp



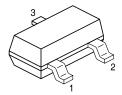


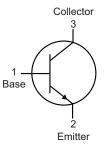
Features:

- High current (500mA)
- Low voltage (45V)

Applications:

- General purpose amplifiers
- Saturated switching and driver applications
- Complement: BCX17





Pin Configuration:

- 1. Base
- 2. Emitter
- 3. Collector

Maximum Ratings

Parameter	Symbol	Value	Unit	
Collector - Base Voltage	V _{CBO}	50		
Collector - Emitter Voltage	V _{CEO}	45	V	
Emitter - Base Voltage	V _{ebo}	5		
Collector Current Continuous	I _C	500	mA	
Collector Current - Peak	I _{CM}	1	А	
Total Power Dissipation	P _{TOT}	250	mW	
Thermal Resistance, Junction to Ambient	$R_{\theta JA}$	417	°C/W	
Junction and Storage Temperature	T _j , T _{stg}	-65 to +150	°C	

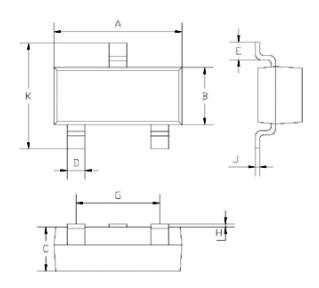


Electrical Characteristics ($T_a = 25$ °C unless otherwise noted)

Parameter	Symbol	Test Conditions	Min.	Тур.	Max.	Unit	
Collector - Base Breakdown Voltage	V _{(BR)CBO}	I _C =-100μΑ, I _E =0	50				
Collector - Emitter Breakdown Voltage	V _{(BR)CEO}	I _C =-10mA, I _B =0	45			V	
Emitter - Base Breakdown Voltage	V _{(BR)EBO}	I _E =-10μΑ, I _C =0	5				
Collector Cut-Off Current	I _{CBO}	V _{CB} =-20V, I _E =0			0.1		
Emitter Cut-Off Current	I _{EBO}	V _{EB} =5V, I _C =0			0.1	μA	
DC Current Gain	h _{FE}	$V_{\rm CE}$ =1V, I _C =100mA $V_{\rm CE}$ =1V, I _C =300mA $V_{\rm CE}$ =1V, I _C =500mA	100 70 40		600		
Collector - Emitter Saturation Voltage	V _{CE(sat)}	I _C =-500mA, I _B =-50mA			0.62	V	
Base Emitter Voltage	V _{BE}	I _C =-500mA, V _{CE} =-2V			1.2		
Transition Frequency	f _T	V _{CE} =5V, I _C =10mA, f=100MHz	100			MHz	

Package Outline

Plastic surface mounted package



Dimensions	Min.	Max.	
А	2.85	2.95	
В	1.25	1.35	
С	1 Typical		
D	0.4 Typical		
E	0.35	0.48	
G	1.85	1.95	
Н	0.02	0.1	
J	0.1 Typical		
K	2.35	2.45	

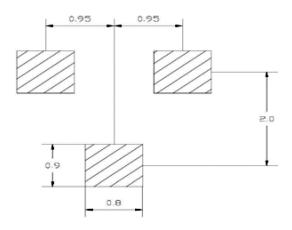
Dimensions : Millimetres





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Soldering Footprint



Dimensions: Millimetres

Part Number Table

Description	Part Number		
Transistor, NPN, 0.5A, 45V, SOT23	BCX19		

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