BCV72

SURFACE MOUNT NPN SILICON TRANSISTOR



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DESCRIPTION:

The CENTRAL SEMICONDUCTOR BCV72 is a Silicon NPN Transistor manufactured by the epitaxial planar process, epoxy molded in a surface mount package, designed for general purpose applications.

MARKING CODE: K8



MAXIMUM RATINGS: (T _A =25°C)	SYMBOL		UNITS
Collector-Base Voltage	V_{CBO}	80	V
Collector-Emitter Voltage	V_{CEO}	60	V
Emitter-Base Voltage	V_{EBO}	5.0	V
Continuous Collector Current	IC	100	mA
Peak Collector Current	I _{CM}	200	mA
Power Dissipation	P_{D}	350	mW
Operating and Storage Junction Temperature	T _J , T _{stg}	-65 to +150	°C
Thermal Resistance	$\Theta_{\sf JA}$	357	°C/W

$\textbf{ELECTRICAL CHARACTERISTICS:} \ (T_{\mbox{\scriptsize A}} = 25^{\circ}\mbox{C unless otherwise noted})$

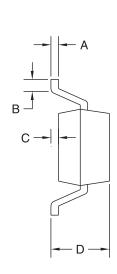
SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
I _{CBO}	V _{CB} =20V			100	nA
I _{CBO}	V _{CB} =20V, T _A =100°C			10	μΑ
BV _{CEO}	I _C =2.0mA	60			V
BV_{CBO}	I _C =10μA	80			V
BV _{EBO}	I _C =10μA	5.0			V
V _{CE} (SAT)	I _C =10mA, I _B =0.5mA			250	mV
V _{BE(ON)}	V_{CE} =5.0V, I_{C} =2.0mA	550		700	mV
hFE	V_{CE} =5.0V, I_{C} =2.0mA	200		450	
C _{ob}	V_{CB} =10V, I_E =0, f=1.0MHz		2.5		pF
f_{T}	V_{CE} =5.0V, I_{C} =10mA, f=35MHz		300		MHz
NF	V_{CE} =5.0V, I_{C} =200 μ A, R_{S} =2.0 $k\Omega$				
	f=1.0kHz, B=200Hz			10	dB

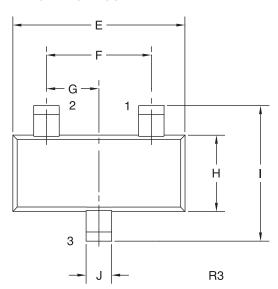
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SOT-23 CASE - MECHANICAL OUTLINE





LEAD CODE:

- 1) BASE 2) EMITTER
- 3) COLLECTOR

MARKING CODE: K8

DIMENSIONS							
	INCHES		MILLIMETERS				
SYMBOL	MIN	MAX	MIN	MAX			
Α	0.003	0.007	0.08	0.18			
В	0.006	-	0.15	-			
С	-	0.005	-	0.13			
D	0.035	0.043	0.89	1.09			
E	0.110	0.120	2.80	3.05			
F	0.075		1.90				
G	0.037		0.95				
Н	0.047	0.055	1.19	1.40			
	0.083	0.098	2.10	2.49			
J	0.014	0.020	0.35	0.50			

SOT-23 (REV: R3)

OUTSTANDING SUPPORT AND SUPERIOR SERVICES



PRODUCT SUPPORT

Central's operations team provides the highest level of support to insure product is delivered on-time.

- Supply management (Customer portals)
- · Inventory bonding
- · Consolidated shipping options

- · Custom bar coding for shipments
- · Custom product packing

DESIGNER SUPPORT/SERVICES

Central's applications engineering team is ready to discuss your design challenges. Just ask.

- Free quick ship samples (2nd day air)
- Online technical data and parametric search
- SPICE models
- · Custom electrical curves
- Environmental regulation compliance
- · Customer specific screening
- · Up-screening capabilities

- · Special wafer diffusions
- · PbSn plating options
- Package details
- · Application notes
- · Application and design sample kits
- · Custom product and package development

CONTACT US

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