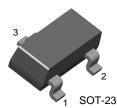


SEMICONDUCTOR®

BCW60A/B/C/D

General Purpose Transistor



BCW60A/B/C/D

1. Base 2. Emitter 3. Collector

NPN Epitaxial Silicon Transistor

Absolute Maximum Rati	NGS T _a =25°C unless otherwise noted
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Symbol	Parameter	Value	Units
V _{CBO}	Collector-Base Voltage	32	V
V _{CEO}	Collector-Emitter Voltage	32	V
V _{EBO}	Emitter-Base Voltage	5	V
I _C	Collector Current	100	mA
P _C	Collector Power Dissipation	350	mW
T _{STG}	Storage Temperature	150	°C

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Symbol	Parameter	Test Condition	Min.	Max.	Units
BV _{CEO}	Collector-Emitter Breakdown Voltage	I _C =2mA, I _B =0	32		V
BV _{EBO}	Emitter-Base Breakdown Voltage	I _E =1μΑ, I _C =0	5		V
I _{CES}	Collector Cut-off Current	V _{CE} =32V, V _{BE} =0		20	nA
I _{EBO}	Emitter Cut-off Current	V _{EB} =4V, I _C =0		20	nA
$ \begin{array}{c} \mbox{h}_{FE} \\ \mbox{black} & \mbox{DC Current Gain} \\ & \mbox{: BCW60B} \\ & \mbox{: BCW60D} \\ & \mbox{: BCW60A} \\ & \mbox{: BCW60A} \\ & \mbox{: BCW60B} \\ & \mbox{: BCW60D} \\ & \mbox{: BCW60D} \\ & \mbox{: BCW60A} \\ & \mbox{: BCW60A} \\ & \mbox{: BCW60A} \\ & \mbox{: BCW60B} \\ & \mbox{: BCW60B} \\ & \mbox{: BCW60B} \\ & \mbox{: BCW60D} \\ & \mbox{: BCW60D} \\ \end{array} \right. $		V _{CE} =5V, I _C =2mA	20 40 100 120 180 250 380 60 70 90 100	220 310 460 630	
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C =50mA, I _B =1.25mA I _C =10mA, I _B =0.25mA		0.55 0.35	V V
V _{BE} (sat)	Base-Emitter Saturation Voltage	I _C =50mA, I _B =1.25mA I _C =10mA, I _B =0.25mA	0.7 0.6	1.05 0.85	V V
V _{BE} (on)	Base-Emitter On Voltage	V _{CE} =5V, I _C =2mA	0.55	0.75	V
C _{ob}	Output Capacitance	V _{CB} =10V, I _E =0, f=1MHz		4.5	pF
f _T	Current Gain Bandwidth Product	I _C =10mA, V _{CE} =5V, f=100MHz 125			MHz
NF	Noise Figure	I _C =0.2mA, V _{CE} =5V 6 R _G =2KΩ, f=1KHz		6	dB
t _{ON}	Turn On Time	I _C =10mA, I _{B1} =1mA 150		150	ns
t _{OFF}	Turn Off Time			800	ns

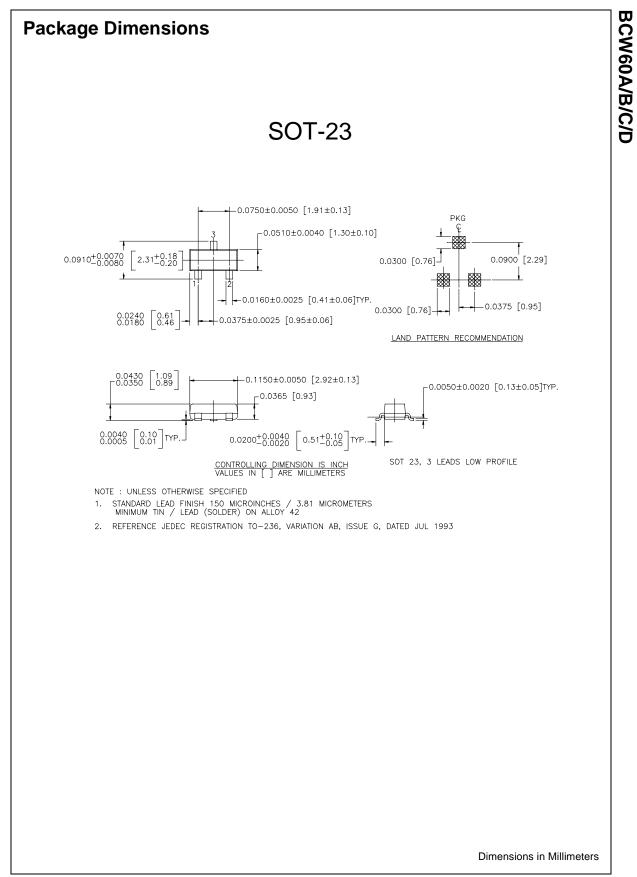
Marking Code

Type BCW60A BCW60B BCW60C BCW60D Mark AB AC AD	•				
Mark AA AB AC AD	Туре	BCW60A	BCW60B	BCW60C	BCW60D
	Mark.	AA	AB	AC	AD



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BCW60A/B/C/D



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No Identification Needed	Full Production	This datasheet contains final specifications. Fairchild Semiconductor reserves the right to make changes at any time without notice in order to improve design.
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