

# **SS9015BBU Datasheet**

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DiGi Electronics Part Number	SS9015BBU-DG
Manufacturer	onsemi
Manufacturer Product Number	SS9015BBU
Description	TRANS PNP 45V 0.1A TO92-3
Detailed Description	Bipolar (BJT) Transistor PNP 45 V 100 mA 190MHz 4 50 mW Through Hole TO-92-3

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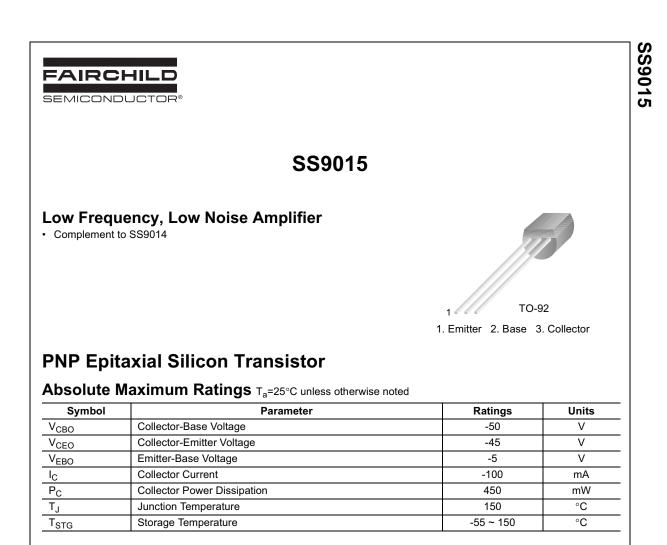


# Purchase and inquiry

Manufacturer Product Number:	Manufacturer:
SS9015BBU	onsemi
Series:	Product Status:
	Obsolete
Transistor Type:	Current - Collector (Ic) (Max):
PNP	100 mA
Voltage - Collector Emitter Breakdown (Max):	Vce Saturation (Max) @ lb, lc:
45 V	700mV @ 5mA, 100mA
Current - Collector Cutoff (Max):	DC Current Gain (hFE) (Min) @ lc, Vce:
50nA (ICBO)	100 @ 1mA, 5V
Power - Max:	Frequency - Transition:
450 mW	190MHz
Operating Temperature:	Mounting Type:
150°C (TJ)	Through Hole
Package / Case:	Supplier Device Package:
TO-226-3, TO-92-3 (TO-226AA)	TO-92-3
Base Product Number:	
SS9015	

# **Environmental & Export classification**

Moisture Sensitivity Level (MSL):	REACH Status:
1 (Unlimited)	REACH Unaffected
ECCN:	HTSUS:
EAR99	8541.21.0075

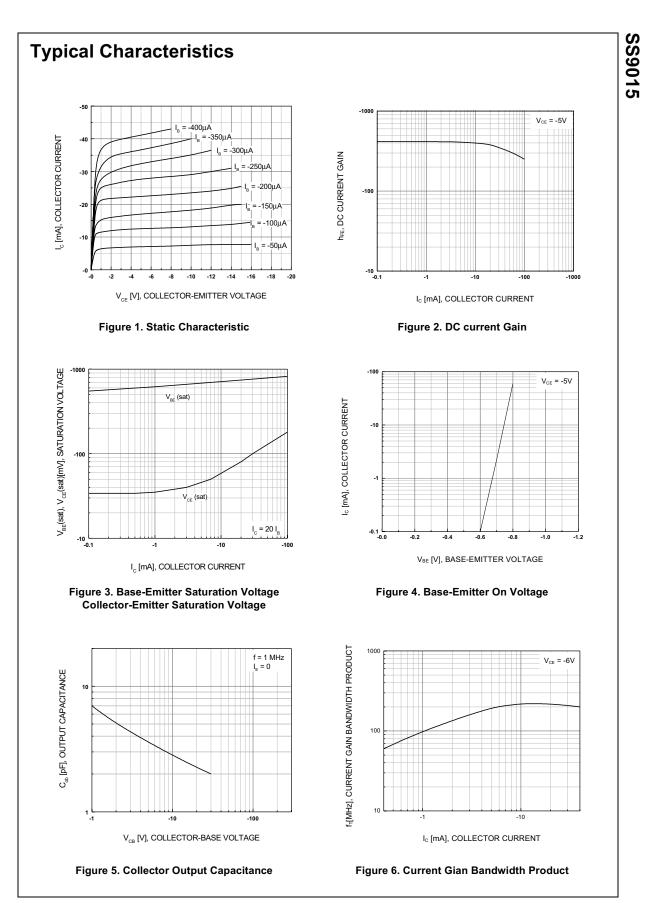


### Electrical Characteristics Ta=25°C unless otherwise noted

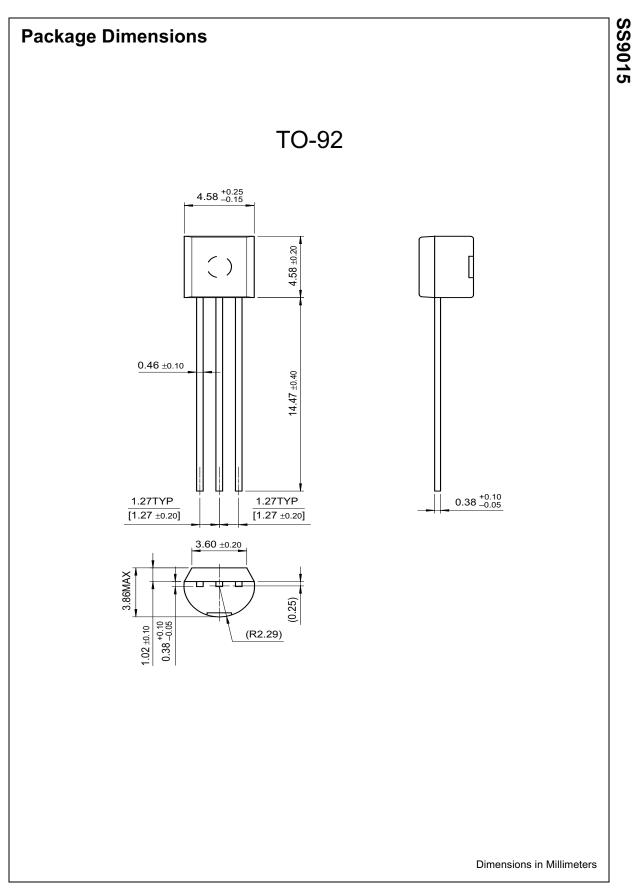
Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
BV <sub>CBO</sub>	Collector-Base Breakdown Voltage	wn Voltage $I_{C} = -100 \mu A, I_{E} = 0$				V
BV <sub>CEO</sub>	Collector-Emitter Breakdown Voltage	I <sub>C</sub> = -1mA, I <sub>B</sub> =0	-45			V
BV <sub>EBO</sub>	Emitter-Base Breakdown Voltage	I <sub>E</sub> = -100μA, I <sub>C</sub> =0	-5			V
I <sub>CBO</sub>	Collector Cut-off Current	V <sub>CB</sub> = -50V, I <sub>E</sub> =0			-50	nA
I <sub>EBO</sub>	Emitter Cut-off Current	V <sub>EB</sub> = -5V, I <sub>C</sub> =0			-50	nA
h <sub>FE</sub>	DC Current Gain	V <sub>CE</sub> = -5V, I <sub>C</sub> = -1mA	60		1000	
V <sub>CE</sub> (sat)	Collector-Base Saturation Voltage	I <sub>C</sub> = -100mA, I <sub>B</sub> = -5mA			-0.7	
V <sub>BE</sub> (sat)	Base-Emitter Saturation Voltage	I <sub>C</sub> = -100mA, I <sub>B</sub> = -5mA			-1.0	V
V <sub>BE</sub> (on)	Base-Emitter On Voltage	V <sub>CE</sub> = -5V, I <sub>C</sub> = -2mA	-0.6		-0.75	V
C <sub>ob</sub>	Output Capacitance	V <sub>CB</sub> = -10V, I <sub>E</sub> =0 f=1MHz		4.5	7.0	pF
f <sub>T</sub>	Current Gain Bandwidth Product	V <sub>CE</sub> = -5V, I <sub>C</sub> = -10mA	100	190		MHz
NF	Noise Figure	$V_{CE}$ = -5V, I <sub>C</sub> = -0.2mA f=1KHz, R <sub>S</sub> =1K $\Omega$		0.7	10	dB

## h<sub>FE</sub> Classification

Classification	A	В	С	D
h <sub>FE</sub>	60 ~ 150	100 ~ 300	200 ~ 600	400 ~ 1000



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E <sup>2</sup> CMOS™	HiSeC™	MSXPro™	Quiet Series™	TruTranslation™
EnSigna™	I²C™	OCX™	RapidConfigure™	UHC™
Across the board	. Around the world.™	OCXPro™	RapidConnect™	UltraFET <sup>®</sup>
The Power Franc	hise™	OPTOLOGIC <sup>®</sup>	SILENT SWITCHER®	VCX™
Programmable A	ctive Droop™	OPTOPLANAR™	SMART START™	

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