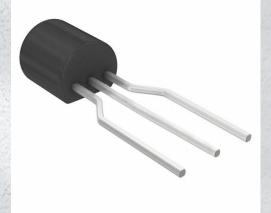


SS9012GTA Datasheet

www.digi-electronics.com



DiGi Electronics Part Number	SS9012GTA-DG
Manufacturer	onsemi
Manufacturer Product Number	SS9012GTA
Description	TRANS PNP 20V 0.5A TO92-3
Detailed Description	Bipolar (BJT) Transistor PNP 20 V 500 mA 625 mW T hrough Hole TO-92-3

https://www.DiGi-Electronics.com



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Purchase and inquiry

Manufacturer Product Number:	Manufacturer:
SS9012GTA	onsemi
Series:	Product Status:
	Obsolete
Transistor Type:	Current - Collector (Ic) (Max):
PNP	500 mA
Voltage - Collector Emitter Breakdown (Max):	Vce Saturation (Max) @ lb, lc:
20 V	600mV @ 50mA, 500mA
Current - Collector Cutoff (Max):	DC Current Gain (hFE) (Min) @ lc, Vce:
100nA (ICBO)	112 @ 50mA, 1V
Power - Max:	Frequency - Transition:
625 mW	
Operating Temperature:	Mounting Type:
150°C (TJ)	Through Hole
Package / Case:	Supplier Device Package:
TO-226-3, TO-92-3 (TO-226AA) Formed Leads	TO-92-3
Base Product Number:	
SS9012	

Environmental & Export classification

RoHS Status:	Moisture Sensitivity Level (MSL):
ROHS3 Compliant	1 (Unlimited)
REACH Status:	ECCN:
REACH Unaffected	EAR99
HTSUS:	
8541.21.0095	



Is Now Part of

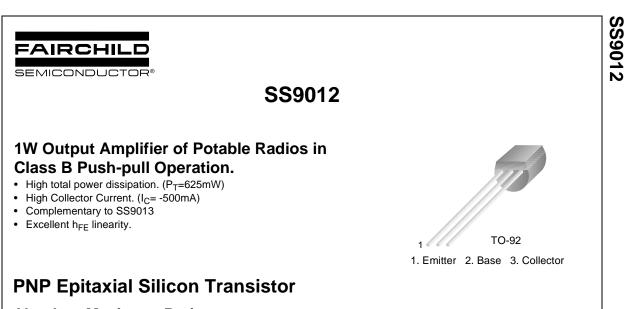


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Please note: As part of the Fairchild Semiconductor integration, some of the Fairchild orderable part numbers will need to change in order to meet ON Semiconductor's system requirements. Since the ON Semiconductor product management systems do not have the ability to manage part nomenclature that utilizes an underscore (_), the underscore (_) in the Fairchild part numbers will be changed to a dash (-). This document may contain device numbers with an underscore (_). Please check the ON Semiconductor website to verify the updated device numbers. The most current and up-to-date ordering information can be found at www.onsemi.com. Please email any questions regarding the system integration to Fairchild_questions@onsemi.com.

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Absolute Maximum Ratings T_a=25°C unless otherwise noted

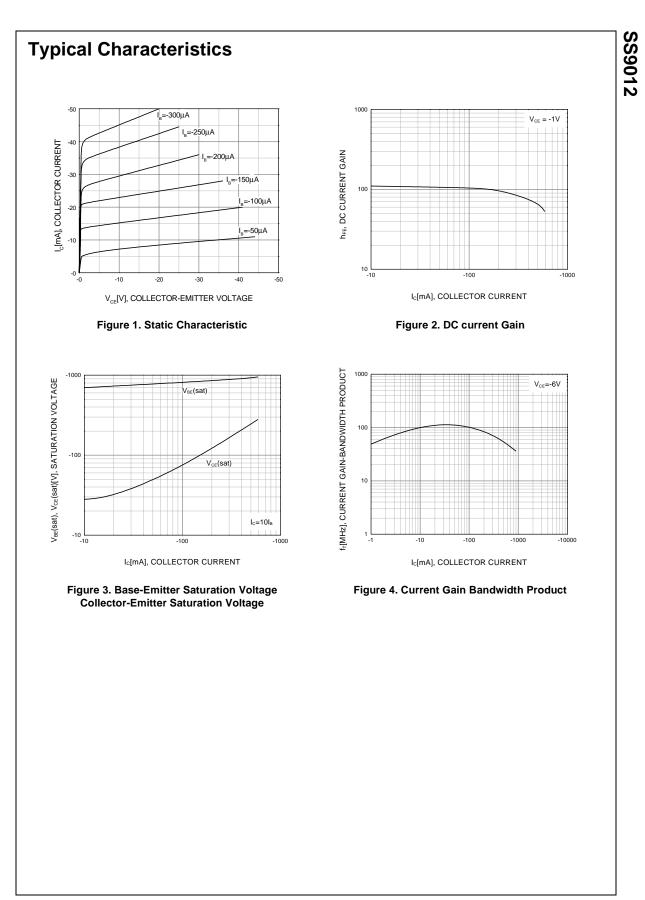
Symbol	Parameter	Ratings	Units
V _{CBO}	Collector-Base Voltage	-40	V
V _{CEO}	Collector-Emitter Voltage	-20	V
V _{EBO}	Emitter-Base Voltage	-5	V
С	Collector Current	-500	mA
Pc	Collector Power Dissipation	625	mW
Гј	Junction Temperature	150	°C
Г _{STG}	Storage Temperature	-55 ~ 150	°C

Electrical Characteristics Ta=25°C unless otherwise noted

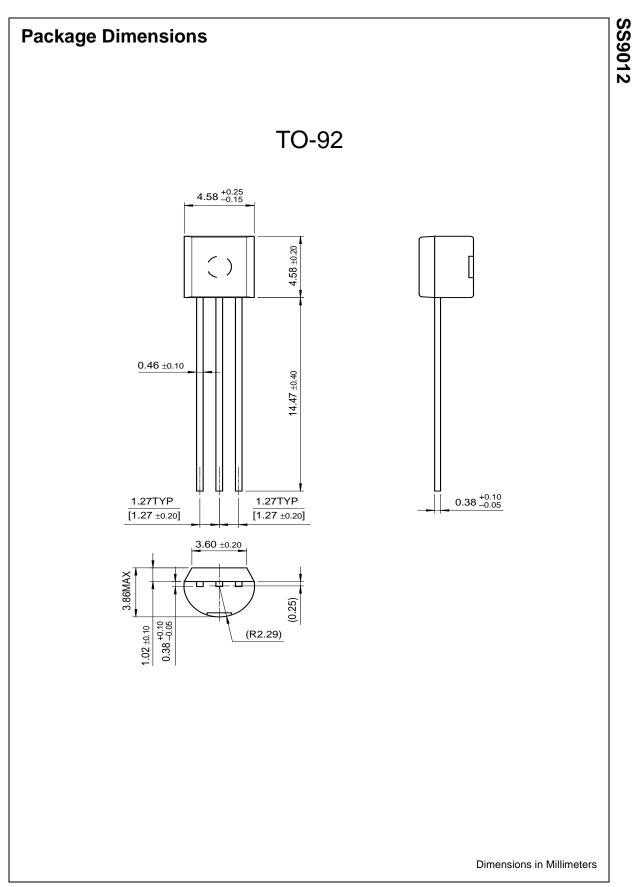
Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
BV _{CBO}	Collector-Base Breakdown Voltage	I _C = -100μA, I _E =0	-40			V
BV _{CEO}	Collector-Emitter Breakdown Voltage	I _C = -1mA, I _B =0	-20			V
BV _{EBO}	Emitter-Base Breakdown Voltage	I _E = -100μA, I _C =0	-5			V
I _{CBO}	Collector Cut-off Current	V _{CB} = -25V, I _E =0			-100	nA
I _{EBO}	Emitter Cut-off Current	V _{EB} = -3V, I _C =0			-100	nA
h _{FE1}	DC Current Gain	$V_{CE} = -1V, I_{C} = -50mA$	64	120	202	
h _{FE2}		$V_{CE} = -1V, I_{C} = -500mA$	40	90		
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = -500mA, I _B = -50mA		-0.18	-0.6	V
V _{BE} (sat)	Base-Emitter Saturation Voltage	I _C = -500mA, I _B = -50mA		-0.95	-1.2	V
V _{BE} (on)	Base-Emitter On Voltage	$V_{CE} = -1V, I_{C} = -10mA$	-0.6	-0.67	-0.7	V

h_{FE} Classification

1 -					
Classification	D	E	F	G	Н
h _{FE1}	64 ~ 91	78 ~ 112	96 ~ 135	112 ~ 166	144 ~ 202



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CROSSVOLT™	FRFET™	MicroPak™	QFET™	SuperSOT™-8
DOME™	GlobalOptoisolator™	MICROWIRE™	QS™	SyncFET™
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Definition of Terms

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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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