

BC368_L34Z Datasheet

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DiGi Electronics Part Number	BC368_L34Z-DG	
Manufacturer	onsemi	
Manufacturer Product Number	BC368_L34Z	
Description	TRANS NPN 20V 2A TO92-3	
Detailed Description	Bipolar (BJT) Transistor NPN 20 V 2 A 45MHz 625 mW Through Hole TO-92-3	

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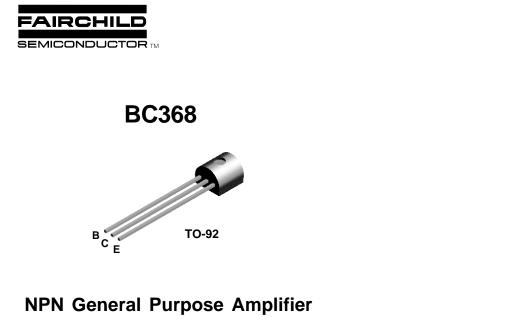


Purchase and inquiry

Manufacturer Product Number:	Manufacturer:
BC368_L34Z	onsemi
Series:	Product Status:
-	Obsolete
Transistor Type:	Current - Collector (Ic) (Max):
NPN	2 A
Voltage - Collector Emitter Breakdown (Max):	Vce Saturation (Max) @ lb, lc:
20 V	500mV @ 100mA, 1A
Current - Collector Cutoff (Max):	DC Current Gain (hFE) (Min) @ lc, Vce:
10µА (ІСВО)	85 @ 500mA, 1V
Power - Max:	Frequency - Transition:
625 mW	45MHz
Operating Temperature:	Mounting Type:
-55°C ~ 150°C (TJ)	Through Hole
Package / Case:	Supplier Device Package:
TO-226-3, TO-92-3 (TO-226AA)	TO-92-3
Base Product Number:	
BC368	

Environmental & Export classification

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



This device is designed for general purpose medium power amplifiers and switches requiring collector currents to 1.5 A. Sourced from Process 37.

Absolute Maximum Ratings* TA = 25°C unless otherwise noted

Symbol	Parameter	Value	Units
V _{CEO}	Collector-Emitter Voltage	20	V
V _{CES}	Collector-Base Voltage	25	V
V _{EBO}	Emitter-Base Voltage	5.0	V
I _C	Collector Current - Continuous	2.0	А
T _J , T _{stg}	Operating and Storage Junction Temperature Range	-55 to +150	°C

*These ratings are limiting values above which the serviceability of any semiconductor device may be impaired.

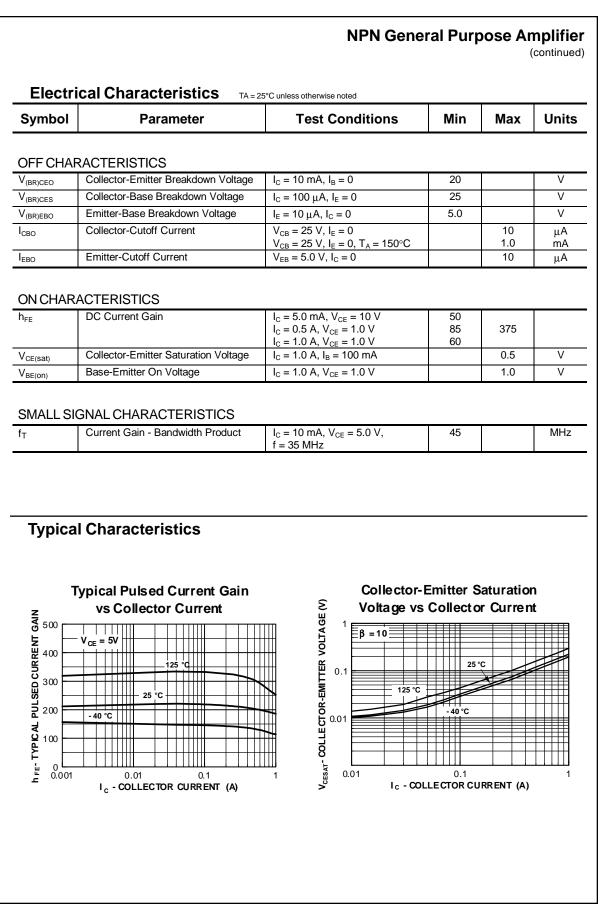
NOTES:

1) These ratings are based on a maximum junction temperature of 150 degrees C. 2) These are steady state limits. The factory should be consulted on applications involving pulsed or low duty cycle operations

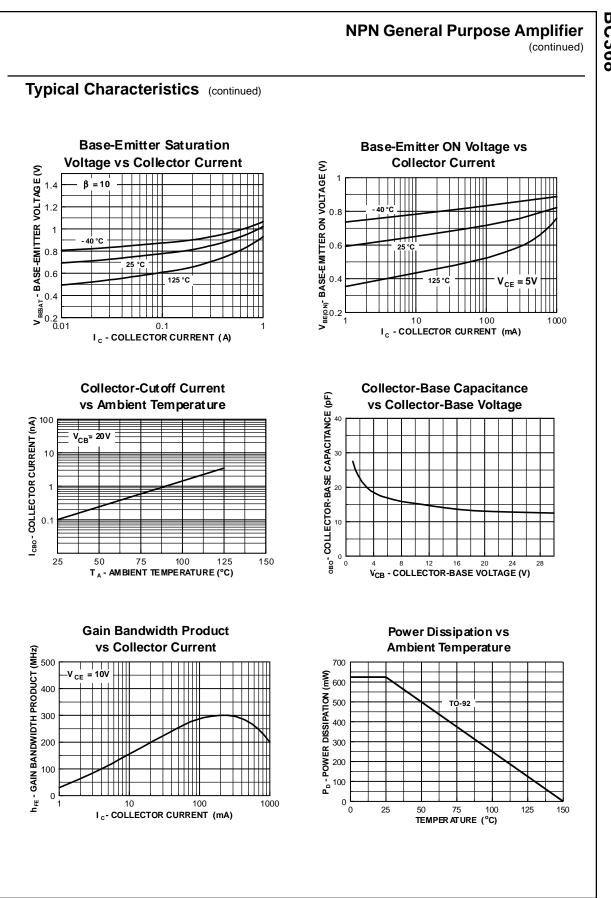
Thermal Characteristics TA = 25°C unless otherwise noted

Symbol	Characteristic	Мах	Units
		BC368	
P _D	Total Device Dissipation	625	mW
	Derate above 25°C	5.0	mW/∘C
$R_{\theta JC}$	Thermal Resistance, Junction to Case	83.3	°C/W
$R_{ extsf{ heta}JA}$	Thermal Resistance, Junction to Ambient	200	°C/W

BC368



BC368



BC368

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PRODUCT STATUS DEFINITIONS

Definition of Terms

Datasheet Identification	Product Status	Definition
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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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