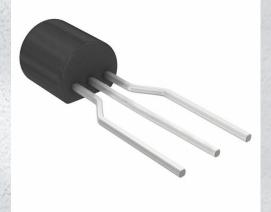


2N4125TFR Datasheet

www.digi-electronics.com

Ma



DiGi Electronics Part Number	2N4125TFR-DG
Manufacturer	onsemi
Aanufacturer Product Number	2N4125TFR
Description	TRANS PNP 30V 0.2A TO92-3
Detailed Description	Bipolar (BJT) Transistor PNP 30 V 200 mA 625 mW T hrough Hole TO-92-3

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Purchase and inquiry

Manufacturer Product Number:	Manufacturer:
2N4125TFR	onsemi
Series:	Product Status:
	Obsolete
Transistor Type:	Current - Collector (Ic) (Max):
PNP	200 mA
Voltage - Collector Emitter Breakdown (Max):	Vce Saturation (Max) @ lb, lc:
30 V	400mV @ 5mA, 50mA
Current - Collector Cutoff (Max):	DC Current Gain (hFE) (Min) @ lc, Vce:
50nA (ICBO)	50 @ 2mA, 1V
Power - Max:	Frequency - Transition:
625 mW	
Operating Temperature:	Mounting Type:
-55°C ~ 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:	
2N4125	

Environmental & Export classification

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

FAIRCHILD SEMICONDUCTOR TM



PNP General Purpose Amplifier

This device is designed for use as general purpose amplifiers and switches requiring collector currents of 10 μA to 100 mA.

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

Symbol	Parameter	Value	Units
V _{CEO}	Collector-Emitter Voltage	30	V
Vcbo	Collector-Base Voltage	30	V
V _{EBO}	Emitter-Base Voltage	4.0	V
lc	Collector Current - Continuous	200	mA
TJ, Tstg	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.

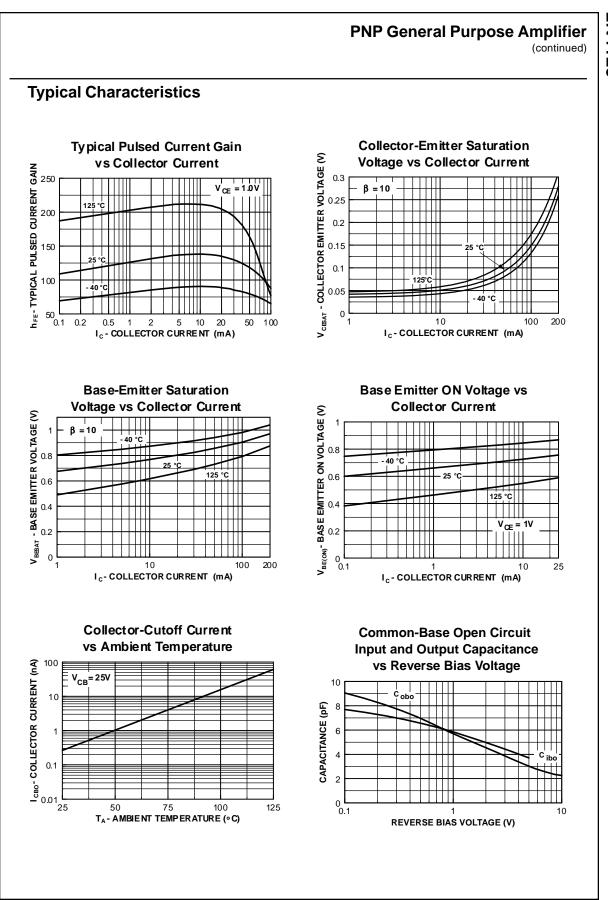
NOTES:

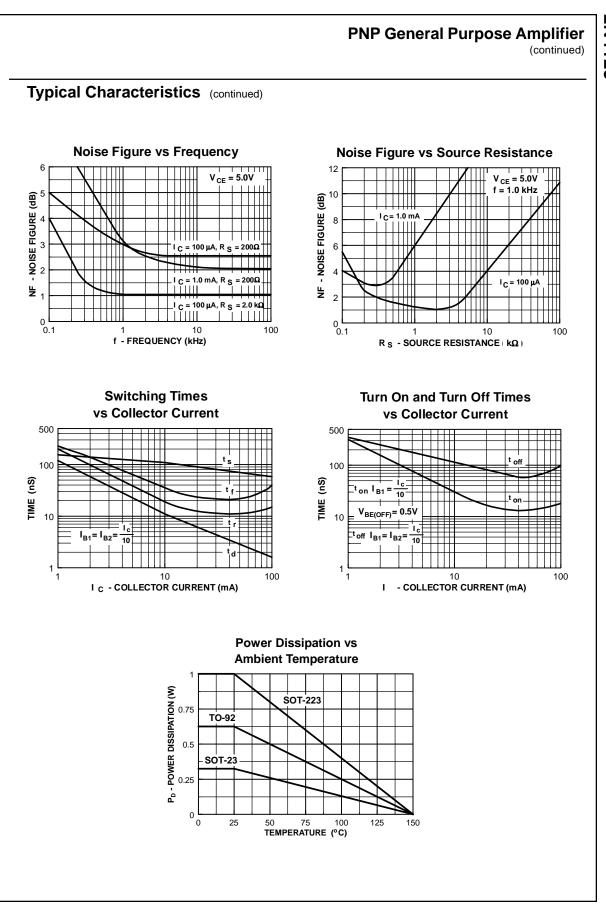
1) These ratings are based on a maximum junction temperature of 150 degrees C.
 2) These are steady state limits. The factory should be consulted on applications involving pulsed or low duty cycle operations.

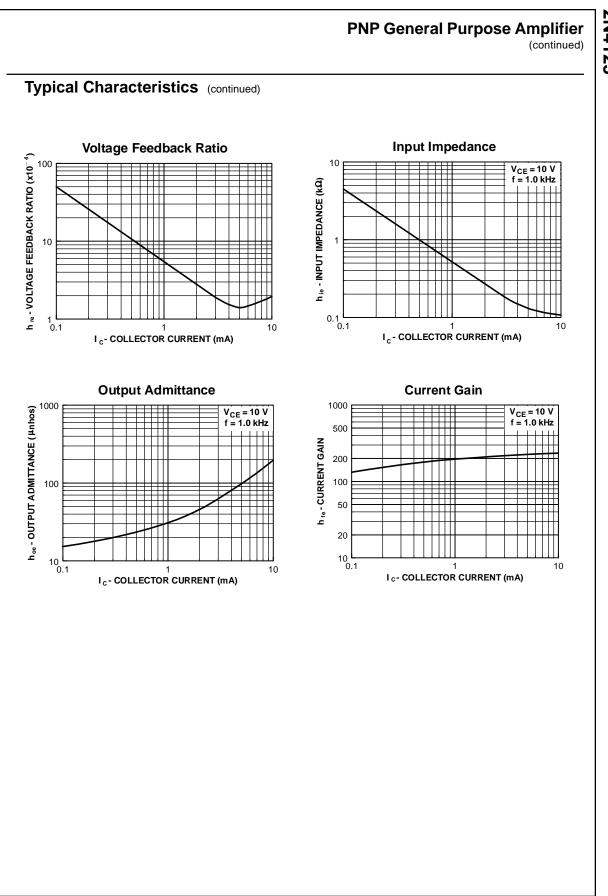
Thermal Characteristics

Thermal Characteristics TA = 25°C unless otherwise noted				
Symbol	Characteristic	Max	Units	
		2N4125		
PD	Total Device Dissipation	625	mW	
	Derate above 25°C	5.0	mW/°C	
R _{θJC}	Thermal Resistance, Junction to Case	83.3	°C/W	
$R_{\theta JA}$	Thermal Resistance, Junction to Ambient	200	°C/W	

		PNP Gen	eral Pur	pose A	mplifie (continue
Electr	ical Characteristics	= 25°C unless otherwise noted			
Symbol	Parameter	Test Conditions	Min	Max	Units
OFF CHA	RACTERISTICS				
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage*	$I_{\rm C} = 1.0$ mA, $I_{\rm B} = 0$	30		V
V _{(BR)CBO}	Collector-Base Breakdown Voltage	$I_{C} = 10 \ \mu A, I_{E} = 0$	30		V
/(BR)EBO	Emitter-Base Breakdown Voltage	$I_{\rm E} = 10 \ \mu A, \ I_{\rm C} = 0$	4.0		V
СВО	Collector-Cutoff Current	$V_{CB} = 20 \text{ V}, I_{E} = 0$		50	nA
EBO	Emitter-Cutoff Current	V _{EB} = 3.0 V, I _C = 0		50	nA
) _{FE}	DC Current Gain	$V_{CE} = 1.0 \text{ V}, I_C = 2.0 \text{ mA}$ $V_{CE} = 1.0 \text{ V}, I_C = 50 \text{ mA}$	50 25	150	M
V _{CE(sat)}	Collector-Emitter Saturation Voltage	$I_{\rm C} = 50$ mA, $I_{\rm B} = 5.0$ mA		0.4	V
/ _{BE(sat)}	Base-Emitter Saturation Voltage	$I_{\rm C} = 50$ mA, $I_{\rm B} = 5.0$ mA		0.95	V
SMALL S	IGNAL CHARACTERISTICS Output Capacitance	V _{CB} = 5.0 V, f = 100 kHz		4.5	pF
	Input Capacitanaa	$V_{} = 0.5 V_{-} f = 100 kHz$		10	~E
Cob Cib Ife	Input Capacitance Small-Signal Current Gain	$V_{BE} = 0.5 \text{ V}, \text{ f} = 100 \text{ kHz}$ I _C = 2.0 mA, V _{CE} = 10 V,		10	pF
vib			50	10 200	pF







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2. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

PRODUCT STATUS DEFINITIONS

Definition of Terms

Datasheet Identification	Product Status	Definition
Advance Information	Formative or In Design	This datasheet contains the design specifications for product development. Specifications may change in any manner without notice.
Preliminary	First Production	This datasheet contains preliminary data, and supplementary data will be published at a later date. Fairchild Semiconductor reserves the right to make changes at any time without notice in order to improve design.
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.
Obsolete	Not In Production	This datasheet contains specifications on a product that has been discontinued by Fairchild semiconductor. The datasheet is printed for reference information only.
	•	Rev. G



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