

UNR31A100L Datasheet



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DiGi Electronics Part Number

UNR31A100L-DG

Manufacturer

Panasonic Electronic Components

Manufacturer Product Number

UNR31A100L

Description

TRANS PREBIAS PNP 50V SSSMINI3

Detailed Description

Pre-Biased Bipolar Transistor (BJT) PNP - Pre-Biase d 50 V 80 mA 80 MHz 100 mW Surface Mount SSSM

ini3-F1



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RFQ Email: Info@DiGi-Electronics.com

DiGi is a global authorized distributor of electronic components.



Purchase and inquiry

Manufacturer Product Number:	Manufacturer:
UNR31A100L	Panasonic Electronic Components
Series:	Product Status:
-	Obsolete
Transistor Type:	Current - Collector (Ic) (Max):
PNP - Pre-Biased	80 mA
Voltage - Collector Emitter Breakdown (Max):	Resistor - Base (R1):
50 V	10 kOhms
Resistor - Emitter Base (R2):	DC Current Gain (hFE) (Min) @ Ic, Vce:
10 kOhms	35 @ 5mA, 10V
Vce Saturation (Max) @ lb, lc:	Current - Collector Cutoff (Max):
250mV @ 300μA, 10mA	500nA
Frequency - Transition:	Power - Max:
80 MHz	100 mW
Mounting Type:	Package / Case:
Surface Mount	SOT-723
Supplier Device Package:	Base Product Number:
SSSMini3-F1	UNR31

Environmental & Export classification

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

UNR31A1

Silicon PNP epitaxial planar type

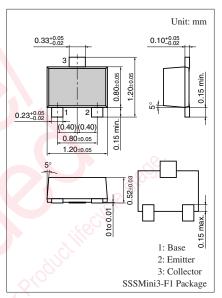
For digital circuits

■ Features

- Suitable for high-density mounting and downsizing of the equipment
- Contribute to low power consumption

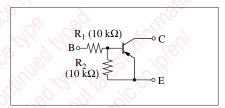
■ Absolute Maximum Ratings $T_a = 25$ °C

Parameter	Symbol	Rating	Unit	
Collector-base voltage (Emitter open)	V _{CBO}	-50	V	
Collector-emitter voltage (Base open)	V_{CEO}	-50	V	
Collector current	I_{C}	-80	mA	
Total power dissipation	P _T	100	mW	
Junction temperature	T_{j}	125	°C	
Storage temperature	T_{stg}	-55 to +125	°C	



Marking Symbol: CE

Internal Connection

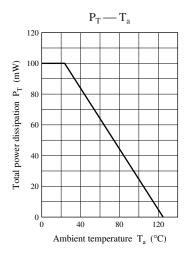


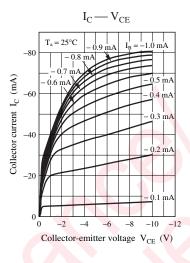
■ Electrical Characteristics $T_a = 25$ °C ± 3 °C

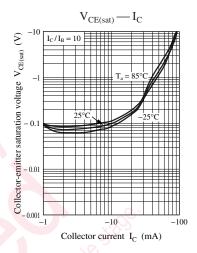
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector-base voltage (Emitter open)	V _{CBO}	$I_C = -10 \mu\text{A}, I_E = 0$	-50			V
Collector-emitter voltage (Base open)	V _{CEO}	$I_{\rm C} = -2 \text{ mA}, I_{\rm B} = 0$	-50			V
Collector-base cutoff current (Emitter open)	I_{CBO}	$V_{CB} = -50 \text{ V}, I_E = 0$			- 0.1	μΑ
Collector-emitter cutoff current (Base open)	I _{CEO}	$V_{CE} = -50 \text{ V}, I_{B} = 0$			- 0.5	μΑ
Emitter-base cutoff current (Collector open)	I _{EBO}	$V_{EB} = -6 \text{ V}, I_{C} = 0$			- 0.5	mA
Forward current transfer ratio	h _{FE}	$V_{CE} = -10 \text{ V}, I_{C} = -5 \text{ mA}$	35			_
Collector-emitter saturation voltage	V _{CE(sat)}	$I_C = -10 \text{ mA}, I_B = -0.3 \text{ mA}$			- 0.25	V
Output voltage high-level	V _{OH}	$V_{CC} = -5 \text{ V}, V_{B} = -0.5 \text{ V}, R_{L} = 1 \text{ k}\Omega$	-4.9			V
Output voltage low-level	V _{OL}	$V_{CC} = -5 \text{ V}, V_{B} = -2.5 \text{ V}, R_{L} = 1 \text{ k}\Omega$			- 0.2	V
Input resistance	R ₁		-30%	10	+30%	kΩ
Resistance ratio	R ₁ / R ₂		0.8	1.0	1.2	
Transition frequency	f_T	$V_{CB} = -10 \text{ V}, I_E = 1 \text{ mA}, f = 200 \text{ MHz}$		80		MHz

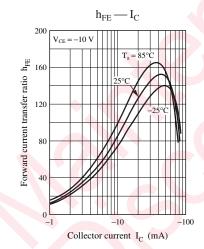
Note) Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.

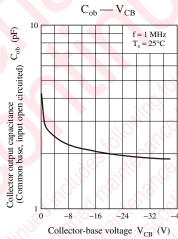
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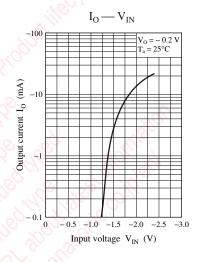


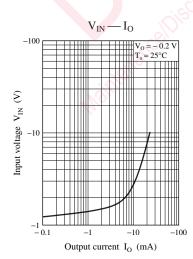












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