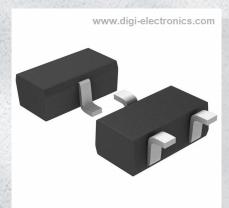


2SC4691J0L Datasheet



https://www.DiGi-Electronics.com

DiGi Electronics Part Number 2SC4691J0L-DG

Manufacturer Panasonic Electronic Components

Manufacturer Product Number 2SC4691J0L

Description TRANS NPN 40V 0.1A SSMINI3

Detailed Description Bipolar (BJT) Transistor NPN 40 V 100 mA 450MHz 1

25 mW Surface Mount SSMini3-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:
2SC4691J0L	Panasonic Electronic Components
Series:	Product Status:
	Obsolete
Transistor Type:	Current - Collector (Ic) (Max):
NPN	100 mA
Voltage - Collector Emitter Breakdown (Max):	Vce Saturation (Max) @ lb, Ic:
40 V	250mV @ 1mA, 10mA
Current - Collector Cutoff (Max):	DC Current Gain (hFE) (Min) @ Ic, Vce:
100nA (ICBO)	60 @ 10mA, 1V
Power - Max:	Frequency - Transition:
125 mW	450MHz
Operating Temperature:	Mounting Type:
125°C (TJ)	Surface Mount
Package / Case:	Supplier Device Package:
SC-89, SOT-490	SSMini3-F1
Base Product Number:	
2SC4691	

Environmental & Export classification

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

2SC4691J

Silicon NPN epitaxial planar type

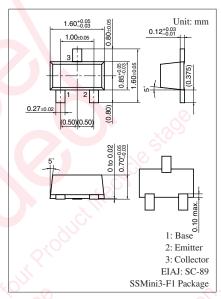
For high-speed switching

■ Features

- Low collector-emitter saturation voltage V_{CE(sat)}
- SS-Mini type package, allowing downsizing of the equipment and automatic insertion through the tape packing

■ Absolute Maximum Ratings $T_a = 25$ °C

Parameter	Symbol	Rating	Unit
Collector-base voltage (Emitter open)	V_{CBO}	40	V
Collector-emitter voltage (E-B short)	V _{CES}	40	V
Emitter-base voltage (Collector open)	V_{EBO}	5	V
Collector current	I_{C}	100	mA
Peak collector current	I_{CP}	300	mA
Collector power dissipation	P_{C}	125	mW
Junction temperature	T _j	125	°C
Storage temperature	T _{stg}	-55 to +125	°C



Marking Symbol: 2Y

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

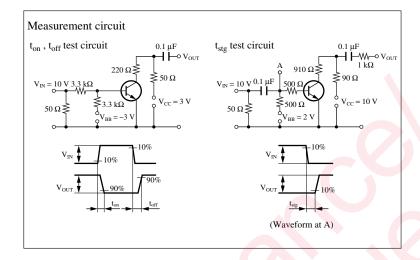
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector-base cutoff current (Emitter open)	I_{CBO}	$V_{CB} = 40 \text{ V}, I_{E} = 0$	10	250	0.1	μΑ
Emitter-base cutoff current (Collector open)	I_{EBO}	$V_{EB} = 4 \text{ V}, I_C = 0$	-W	, o	0.1	μΑ
Forward current transfer ratio *	h_{FE}	$V_{CE} = 1 \text{ V}, I_{C} = 10 \text{ mA}$	60		200	_
Collector-emitter saturation voltage	V _{CE(sat)}	$I_{\rm C} = 10 \text{ mA}, I_{\rm B} = 1 \text{ mA}$		0.17	0.25	V
Base-emitter saturation voltage	V _{BE(sat)}	$I_C = 10 \text{ mA}, I_B = 1 \text{ mA}$			1.0	V
Transition frequency	f_T	$V_{CB} = 10 \text{ V}, I_E = -10 \text{ mA}, f = 200 \text{ MHz}$		450		MHz
Collector output capacitance (Common base, input open circuited)	C _{ob}	$V_{CB} = 10 \text{ V}, I_E = 0, f = 1 \text{ MHz}$		2	6	pF
Turn-on time	t _{on}	Refer to the measurement circuit		17		ns
Turn-off time	t _{off}	and the same of th		17		ns
Storage time	t _{stg}			10		ns

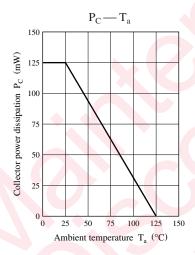
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.

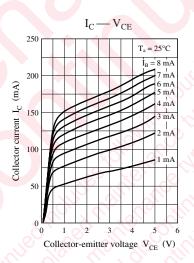
2. *: Rank classification

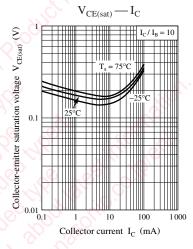
Rank	Q	R	No-rank
h_{FE}	60 to 120	90 to 200	60 to 200

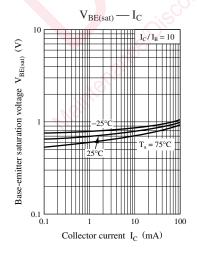
Product of no-rank is not classified and have no indication for rank.

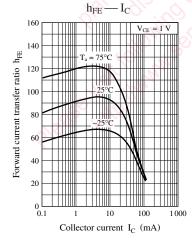


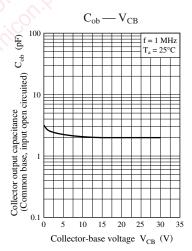












2 SJC00282BED

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