

2SD2240JRL Datasheet



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DiGi Electronics Part Number 2SD2240JRL-DG

Manufacturer Panasonic Electronic Components

Manufacturer Product Number 2SD2240JRL

Description TRANS NPN 150V 0.05A SSMINI3

Detailed Description Bipolar (BJT) Transistor NPN 150 V 50 mA 150MHz 1

25 mW Surface Mount SSMini3-F1



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DiGi is a global authorized distributor of electronic components.



2SD2240

Purchase and inquiry

Manufacturer Product Number:	Manufacturer:
2SD2240JRL	Panasonic Electronic Components
Series:	Product Status:
	Obsolete
Transistor Type:	Current - Collector (Ic) (Max):
NPN	50 mA
Voltage - Collector Emitter Breakdown (Max):	Vce Saturation (Max) @ lb, lc:
150 V	1V @ 3mA, 30mA
Current - Collector Cutoff (Max):	DC Current Gain (hFE) (Min) @ Ic, Vce:
1μA (ICBO)	130 @ 10mA, 5V
Power - Max:	Frequency - Transition:
125 mW	150MHz
Operating Temperature:	Mounting Type:
125°C (TJ)	Surface Mount
Package / Case:	Supplier Device Package:
SC-89, SOT-490	SSMini3-F1
Base Product Number:	

Environmental & Export classification

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

2SD2240J

Silicon NPN epitaxial planar type

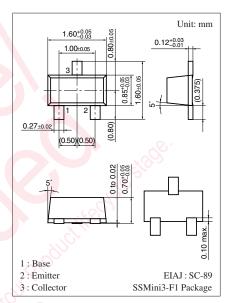
For high breakdown voltage low-noise amplification Complementary to 2SB1463J

■ Features

- ullet High collector-emitter voltage (Base open) V_{CEO}
- Low noise voltage NV
- 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}	150	V	
Collector-emitter voltage (Base open)	V _{CEO}	150	V	
Emitter-base voltage (Collector open)	V_{EBO}	5	V	
Collector current	I_{C}	50	mA	
Peak collector current	I_{CP}	100	mA	
Collector power dissipation	P _C	125	mW	
Junction temperature	Tj	125	°C	
Storage temperature	T_{stg}	-55 to +125	°C	



Marking Symbol: P

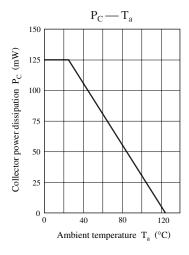
■ Electrical Characteristics $T_a = 25$ °C ± 3 °C

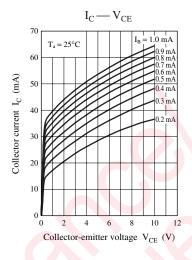
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector-emitter voltage (Base open)	V_{CEO}	$I_C = 100 \mu A, I_B = 0$	150			V
Emitter-base voltage (Collector open)	V _{EBO}	$I_E = 10 \mu A, I_C = 0$	5			V
Collector-base cutoff current (Emitter open)	I_{CBO}	$V_{CB} = 100 \text{ V}, I_{E} = 0$			1	μΑ
Forward current transfer ratio *	h _{FE}	$V_{CE} = 5 \text{ V}, I_{C} = 10 \text{ mA}$	130		330	_
Collector-emitter saturation voltage	V _{CE(sat)}	$I_C = 30 \text{ mA}, I_B = 3 \text{ mA}$			1	V
Transition frequency	f_T	$V_{CB} = 10 \text{ V}, I_E = -10 \text{ mA}, f = 200 \text{ MHz}$		150		MHz
Collector output capacitance (Common base, input open circuited)	C _{ob}	$V_{CB} = 10 \text{ V}, I_E = 0, f = 1 \text{ MHz}$		2.3		pF
Noixe voltage	NV	$V_{CE} = 10 \text{ V}, I_C = 1 \text{ mA}, G_V = 80 \text{ dB}$ $R_g = 100 \text{ k}\Omega$, Function = FLAT		150		mV

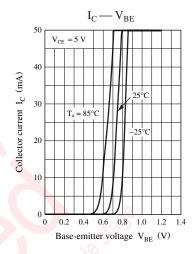
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.

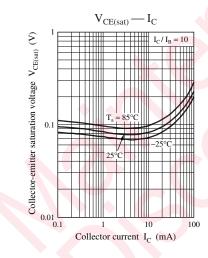
2. *: Rank classification

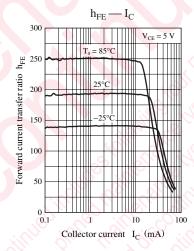
Rank	R	S
h_{FE}	130 to 220	185 to 330

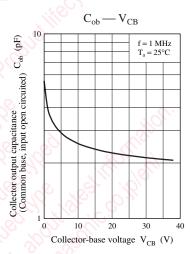












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