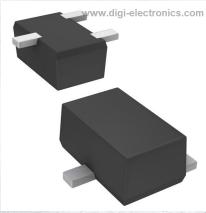


2SA17390RL Datasheet

DiGi

Manuf



Electronics Part Number	2SA17390RL-DG
Manufacturer	Panasonic Electronic Components
facturer Product Number	2SA17390RL
Description	TRANS PNP 15V 0.05A SMINI3
Detailed Description	Bipolar (BJT) Transistor PNP 15 V 50 mA 1.5GHz 150 mW Surface Mount SMini3-G1

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Purchase and inquiry

Manufacturer Product Number:	Manufacturer:
2SA17390RL	Panasonic Electronic Components
Series:	Product Status:
	Obsolete
Transistor Type:	Current - Collector (Ic) (Max):
PNP	50 mA
Voltage - Collector Emitter Breakdown (Max):	Vce Saturation (Max) @ lb, lc:
15 V	200mV @ 1mA, 10mA
Current - Collector Cutoff (Max):	DC Current Gain (hFE) (Min) @ lc, Vce:
100nA (ICBO)	90 @ 10mA, 1V
Power - Max:	Frequency - Transition:
150 mW	1.5GHz
Operating Temperature:	Mounting Type:
150°C (TJ)	Surface Mount
Package / Case:	Supplier Device Package:
SC-70, SOT-323	SMini3-G1
Base Product Number:	
2SA1739	

Environmental & Export classification

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

Transistors

Panasoni

2SA1739

Silicon PNP epitaxial planar type

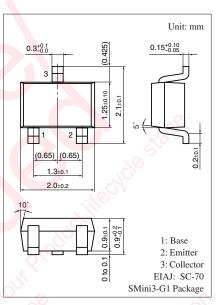
For high speed switching Complementary to 2SC3938

Features

- High speed switching
- \bullet Low collector-emitter saturation voltage $V_{\mbox{CE(sat)}}$
- S-Mini type package, allowing downsizing of the equipment and automatic insertion through the tape packing

Absolute Maximum Ratings $T_a = 25^{\circ}C$				
Parameter	Symbol	Rating	Unit	
Collector-base voltage (Emitter open)	V _{CBO}	-15	V	
Collector-emitter voltage (Base open)	V _{CEO}	-15	v	
Emitter-base voltage (Collector open)	V _{EBO}	-4	V	
Collector current	I _C	-50	mA	
Peak collector current	I _{CP}	-100	mA	
Collector power dissipation	P _C	150	mW	
Junction temperature	Tj	150	°Ç	
Storage temperature	T _{stg}	-55 to +150	°C	





Marking Symbol: AX

Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector-base cutoff current (Emitter open)	I _{CBO}	$V_{CB} = -8 V, I_E = 0$	<i>X</i> 2	S	- 0.1	μΑ
Emitter-base cutoff current (Collector open)	I _{EBO}	$V_{CE} = -3 V, I_C = 0$	n al		- 0.1	μΑ
Forward current transfer ratio	h _{FE1} *	$V_{CE} = -1 V, I_C = -10 mA$	50		150	
	h _{FE2}	$V_{CE} = -1 V, I_C = -1 mA$	30			
Collector-emitter saturation voltage	V _{CE(sat)}	$I_{\rm C} = -10 \text{ mA}, I_{\rm B} = -1 \text{ mA}$		- 0.1	- 0.2	V
Transition frequency	f _T	$V_{CB} = -10 \text{ V}, I_E = 10 \text{ mA}, f = 200 \text{ MHz}$	800	1 500		MHz
Collector output capacitance (Common base, input open circuited)	C _{ob}	$V_{CB} = -5 V, I_E = 0, f = 1 MHz$		1		pF
Turn-on time	t _{on}	Refer to the switching time		12		ns
Turn-off time	t _{off}	measurement circuit		20		ns
Storage time	t _{stg}			19		ns

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

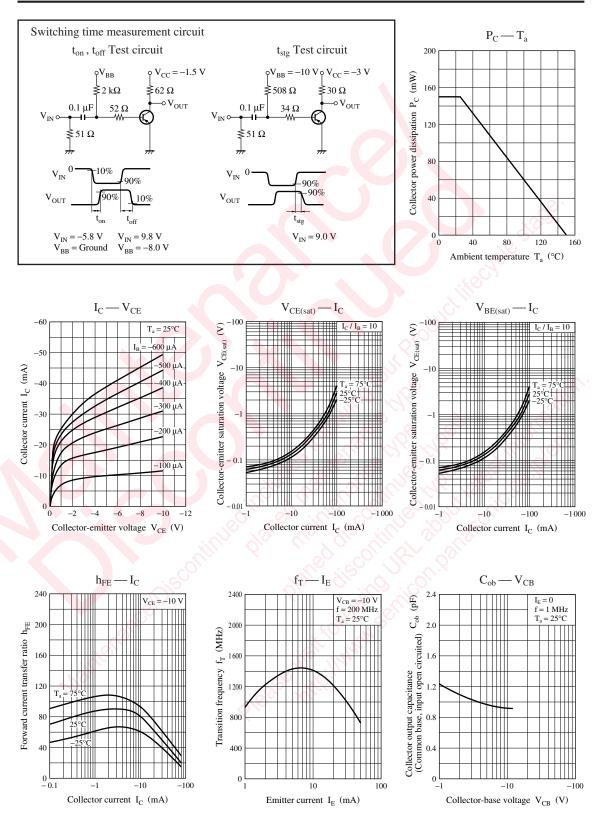
2. *: Rank classification

Rank	Q	R	No-rank
h _{FE1}	50 to 120	90 to 150	50 to 150
Marking symbol	AXQ	AXR	AX

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

2SA1739

Panasonic



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