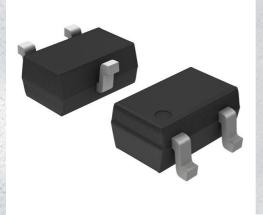


2SA1576ART1G Datasheet

www.digi-electronics.com



https://www.DiGi-Electronics.com

DiGi Electronics Part Number 2SA1576ART1G-DG

Manufacturer onsemi

Manufacturer Product Number 2SA1576ART1G

Description TRANS PNP 50V 0.1A SC70-3

Detailed Description Bipolar (BJT) Transistor PNP 50 V 100 mA 200 mW S

urface Mount SC-70-3 (SOT323)



Tel: +00 852-30501935

RFQ Email: Info@DiGi-Electronics.com

DiGi is a global authorized distributor of electronic components.



Purchase and inquiry

Manufacturer Product Number:	Manufacturer:
2SA1576ART1G	onsemi
Series:	Product Status:
	Obsolete
Transistor Type:	Current - Collector (Ic) (Max):
PNP	100 mA
Voltage - Collector Emitter Breakdown (Max):	Vce Saturation (Max) @ lb, lc:
50 V	500mV @ 10mA, 100mA
Current - Collector Cutoff (Max):	DC Current Gain (hFE) (Min) @ Ic, Vce:
100nA	180 @ 2mA, 6V
Power - Max:	Frequency - Transition:
200 mW	
Operating Temperature:	Mounting Type:
150°C (TJ)	Surface Mount
Package / Case:	Supplier Device Package:
SC-70, SOT-323	SC-70-3 (SOT323)
Base Product Number:	
2SA1576	

Environmental & Export classification

Moisture Sensitivity Level (MSL):	REACH Status:
1 (Unlimited)	REACH Unaffected
ECCN:	HTSUS:
FAR99	8541 21 0095

2SA1576ART1

General Purpose Amplifier Transistors

PNP Surface Mount

Features

- Moisture Sensitivity Level: 1
- Pb-Free Package is Available

MAXIMUM RATINGS $(T_A = 25^{\circ}C)$

Rating	Symbol	Value	Unit
Collector-Base Voltage	V _{(BR)CBO}	60	Vdc
Collector–Emitter Voltage	V _{(BR)CEO}	50	Vdc
Emitter-Base Voltage	V _{(BR)EBO}	7.0	Vdc
Collector Current – Continuous	I _C	100	mAdc
Collector Current – Peak	I _{C(P)}	200	mAdc

THERMAL CHARACTERISTICS

Characteristic	Symbol	Max	Unit
Power Dissipation	P _D	200	mW
Junction Temperature	TJ	150	°C
Storage Temperature	T _{stg}	-55 to +150	°C

Stresses exceeding Maximum Ratings may damage the device. Maximum Ratings are stress ratings only. Functional operation above the Recommended Operating Conditions is not implied. Extended exposure to stresses above the Recommended Operating Conditions may affect device reliability.

ELECTRICAL CHARACTERISTICS (T_A = 25°C unless otherwise noted)

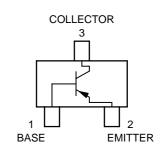
Characteristic	Symbol	Min	Max	Unit
Collector–Emitter Breakdown Voltage (I _C = 2.0 mAdc, I _B = 0)	V _{(BR)CEO}	50	-	Vdc
Collector–Base Breakdown Voltage ($I_C = 10 \mu Adc, I_E = 0$)	V _{(BR)CBO}	60	-	Vdc
Emitter–Base Breakdown Voltage ($I_E = 10 \mu Adc, I_C = 0$)	V _{(BR)EBO}	7.0	1	Vdc
Collector–Base Cutoff Current (V _{CB} = 60 Vdc, I _E = 0)	I _{CBO}	-	0.1	μAdc
	I _{CEO}		0.1 2.0 1.0	μAdc μAdc mAdc
DC Current Gain (Note 1) (V _{CE} = 6.0 Vdc, I _C = 2.0 mAdc)	h _{FE}	180	390	-
Collector–Emitter Saturation Voltage (I _C = 100 mAdc, I _B = 10 mAdc)	V _{CE(sat)}	-	0.5	Vdc

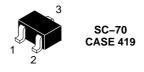
1. Pulse Test: Pulse Width \leq 300 μ s, D.C. \leq 2%.



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MARKING DIAGRAM



76 = Device Code M = Date Code* • = Pb-Free Package

(Note: Microdot may be in either location)

*Date Code orientation may vary depending upon manufacturing location.

ORDERING INFORMATION

Device*	Package	Shipping [†]
2SA1576ART1	SC-70	3000/Tape & Reel
2SA1576ART1G	SC-70 (Pb-Free)	3000/Tape & Reel

*The "T1" suffix refers to a 7 inch reel.

†For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specifications Brochure, BRD8011/D.



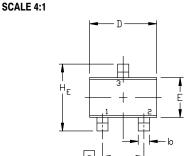
MECHANICAL CASE OUTLINE

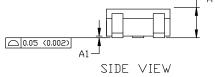
PACKAGE DIMENSIONS



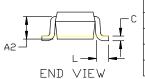
DATE 11 OCT 2022







TOP VIEW



NOTES:

- 1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 1982.
- 2. CONTROLLING DIMENSION: INCH

	MILLIMETERS				INCHES		
DIM	MIN.	N□M.	MAX.	MIN.	N□M.	MAX.	
Α	0.80	0.90	1.00	0.032	0.035	0.040	
A1	0.00	0.05	0.10	0.000	0.002	0.004	
A2		0.70 REF			0.028 BSC		
b	0.30	0.35	0.40	0.012	0.014	0.016	
С	0.10	0.18	0.25	0.004	0.007	0.010	
D	1.80	2.00	2.20	0.071	0.080	0.087	
E	1.15	1.24	1.35	0.045	0.049	0.053	
е	1.20	1.30	1.40	0.047	0.051	0.055	
e1	0.65 BSC				0.026 BS	C	
L	0.20	0.38	0.56	0.008	0.015	0.022	
HE	2.00	2.10	2.40	0.079	0.083	0.095	



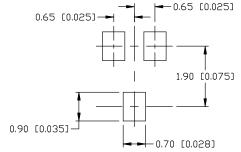


XX = Specific Device Code

= Date Code М

= Pb-Free Package

*This information is generic. Please refer to device data sheet for actual part marking. Pb-Free indicator, "G" or microdot "■", may or may not be present. Some products may not follow the Generic Marking.



For additional information on our Pb-Free strategy and soldering details, please download the ID Semiconductor Soldering and Mounting Techniques Reference Manual, SDLDERRM/D.

SOLDERING FOOTPRINT

STYLE 1: CANCELLED	STYLE 2: PIN 1. ANODE 2. N.C. 3. CATHODE	STYLE 3: PIN 1. BASE 2. EMITTER 3. COLLECTOR	STYLE 4: PIN 1. CATHODE 2. CATHODE 3. ANODE	STYLE 5: PIN 1. ANODE 2. ANODE 3. CATHODE	
STYLE 6:	STYLE 7:	STYLE 8:	STYLE 9:	STYLE 10:	STYLE 11:
PIN 1. EMITTER	PIN 1. BASE	PIN 1. GATE	PIN 1. ANODE	PIN 1. CATHODE	PIN 1. CATHODE
2. BASE	2. EMITTER	2. SOURCE	2. CATHODE	2. ANODE	CATHODE
COLLECTOR	COLLECTOR	3. DRAIN	CATHODE-ANODE	3. ANODE-CATHODE	CATHODE

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DESCRIPTION:	SC-70 (SOT-323)		PAGE 1 OF 1

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