

查询“MSC2295-BT1”供应商
MSC2295-CT1

Preferred Device

NPN RF Amplifier Transistors Surface Mount

Features

- Pb-Free Packages are Available

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

Rating	Symbol	Value	Unit
Collector-Base Voltage	$V_{(\text{BR})\text{CBO}}$	30	Vdc
Collector-Emitter Voltage	$V_{(\text{BR})\text{CEO}}$	20	Vdc
Emitter-Base Voltage	$V_{(\text{BR})\text{EBO}}$	5.0	Vdc
Collector Current – Continuous	I_C	30	mAdc

THERMAL CHARACTERISTICS

Characteristic	Symbol	Max	Unit
Power Dissipation	P_D	200	mW
Junction Temperature	T_J	150	°C
Storage Temperature	T_{stg}	-55 to +150	°C

Maximum ratings are those values beyond which device damage can occur. Maximum ratings applied to the device are individual stress limit values (not normal operating conditions) and are not valid simultaneously. If these limits are exceeded, device functional operation is not implied, damage may occur and reliability may be affected.

ELECTRICAL CHARACTERISTICS ($T_A = 25^\circ\text{C}$)

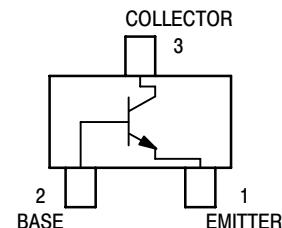
Characteristic	Symbol	Min	Max	Unit
Collector-Base Cutoff Current ($V_{CB} = 10 \text{ Vdc}, I_E = 0$)	I_{CBO}	–	0.1	μAdc
DC Current Gain (Note 1) ($V_{CB} = 10 \text{ Vdc}, I_C = -1.0 \text{ mAdc}$) MSC2295-BT1 MSC2295-CT1	h_{FE}	70 110	140 220	–
Collector-Gain — Bandwidth Product ($V_{CB} = 10 \text{ Vdc}, I_E = -1.0 \text{ mAdc}$)	f_T	150	–	MHz
Reverse Transistor Capacitance ($V_{CE} = 10 \text{ Vdc}, I_C = 1.0 \text{ mAdc}, f = 10.7 \text{ MHz}$)	C_{re}	–	1.5	pF

1. Pulse Test: Pulse Width $\leq 300 \mu\text{s}$, D.C. $\leq 2\%$.

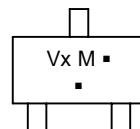


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MARKING DIAGRAM



Vx = Device Code

x = B or C

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 [†]
MSC2295-BT1	SC-59	3000/Tape & Reel
MSC2295-BT1G	SC-59 (Pb-Free)	3000/Tape & Reel
MSC2295-CT1	SC-59	3000/Tape & Reel
MSC2295-CT1G	SC-59 (Pb-Free)	3000/Tape & 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.

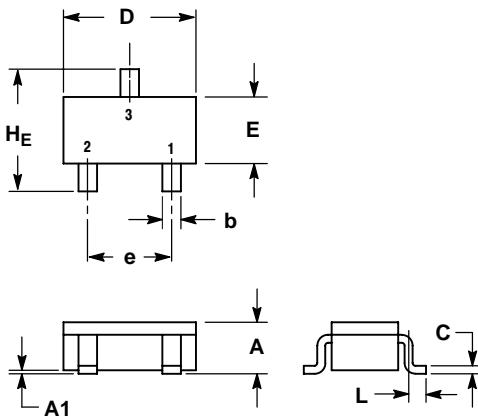
Preferred devices are recommended choices for future use and best overall value.

MSC2295-BT1, MSC2295-CT1

查询"MSC2295-BT1-D"供应商

PACKAGE DIMENSIONS

SC-59
CASE 318D-04
ISSUE G

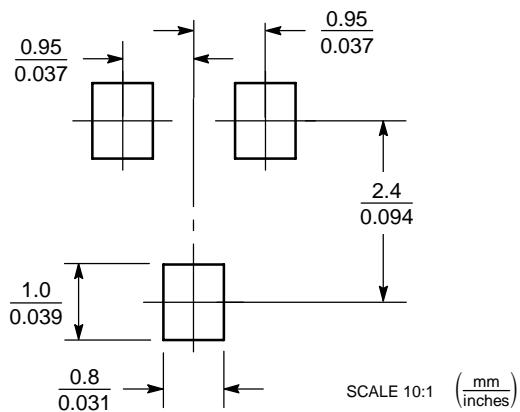


NOTES:

1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
2. CONTROLLING DIMENSION: MILLIMETER.

DIM	MILLIMETERS			INCHES		
	MIN	NOM	MAX	MIN	NOM	MAX
A	1.00	1.15	1.30	0.039	0.045	0.051
A1	0.01	0.06	0.10	0.001	0.002	0.004
b	0.35	0.43	0.50	0.014	0.017	0.020
c	0.09	0.14	0.18	0.003	0.005	0.007
D	2.70	2.90	3.10	0.106	0.114	0.122
E	1.30	1.50	1.70	0.051	0.059	0.067
e	1.70	1.90	2.10	0.067	0.075	0.083
L	0.20	0.40	0.60	0.008	0.016	0.024
H_E	2.50	2.80	3.00	0.099	0.110	0.118

SOLDERING FOOTPRINT*



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

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