MSA1162GT1G

General Purpose Amplifier Transistors

PNP Surface Mount

Features

- Moisture Sensitivity Level: 1
- This is a Pb–Free Device

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	Ι _C	100	mAdc
Collector Current – Peak	I _{C(P)}	200	mAdc

THERMAL CHARACTERISTICS

Characteristic	Symbol	Max	Unit
Power Dissipation	PD	200	mW
Junction Temperature	ТJ	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 ($T_A = 25^{\circ}C$ unless otherwise noted)

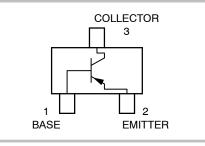
	-			-
Characteristic	Symbol	Min	Max	Unit
Collector–Emitter Breakdown Voltage $(I_C = 2.0 \text{ mAdc}, I_B = 0)$	V _{(BR)CEO}	50	-	Vdc
Collector-Base Breakdown Voltage $(I_C = 10 \ \mu Adc, I_E = 0)$	V _{(BR)CBO}	60	-	Vdc
Emitter–Base Breakdown Voltage ($I_E = 10 \ \mu Adc, I_C = 0$)	V _{(BR)EBO}	7.0	-	Vdc
Collector–Base Cutoff Current (V _{CB} = 45 Vdc, I _E = 0)	I _{CBO}	-	0.1	μAdc
$\label{eq:constraint} \begin{array}{l} \mbox{Collector-Emitter Cutoff Current} \\ (V_{CE} = 10 \mbox{ Vdc}, I_B = 0) \\ (V_{CE} = 30 \mbox{ Vdc}, I_B = 0) \\ (V_{CE} = 30 \mbox{ Vdc}, I_B = 0, T_A = 80^{\circ}\mbox{C}) \end{array}$	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}	200	400	-
Collector–Emitter Saturation Voltage $(I_C = 100 \text{ mAdc}, I_B = 10 \text{ mAdc})$	V _{CE(sat)}	-	0.5	Vdc
Current – Gain – Bandwidth Product ($I_C = 1 \text{ mA}, V_{CE} = 10.0 \text{ V}, f = 10 \text{ MHz}$)	f _T	80	_	MHz
1 Dulas Test: Dulas Width < 200 vs. D.C.	< 00/			

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



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SC-59 CASE 318D STYLE 1

MARKING DIAGRAM



62G = Device Code M = Date Code*

= Pb-Free Package

(Note: Microdot may be in either location) *Date Code orientation may vary depending upon manufacturing location.

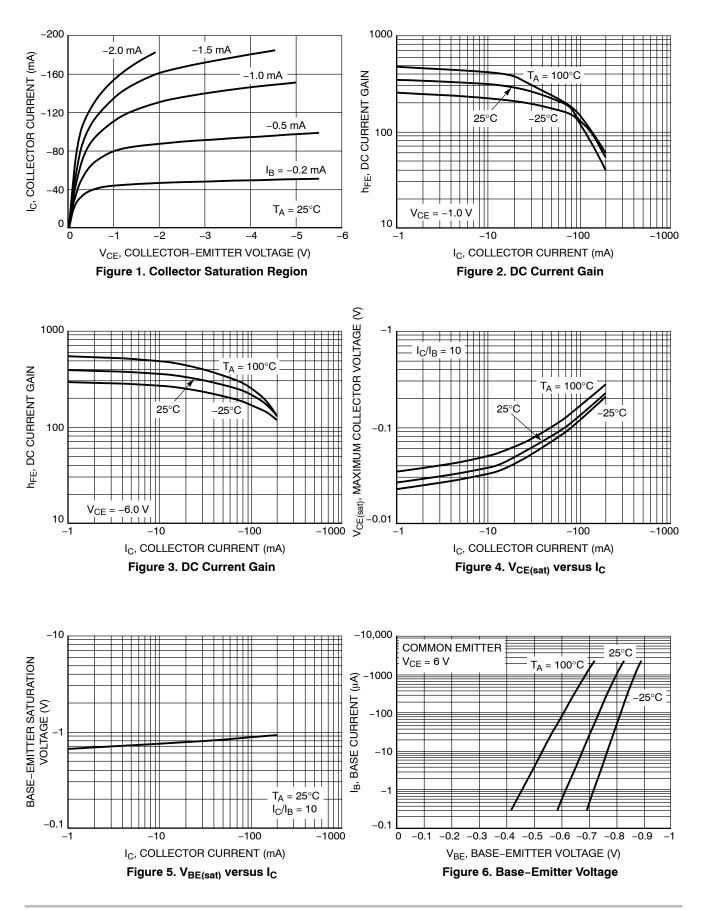
ORDERING INFORMATION

Devi	ce	Package	Shipping [†]
MSA1162	GT1G	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.

MSA1162GT1G

TYPICAL ELECTRICAL CHARACTERISTICS

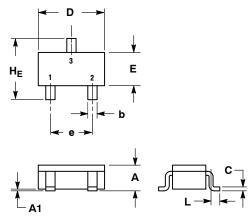


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PACKAGE DIMENSIONS

SC-59 CASE 318D-04 ISSUE H

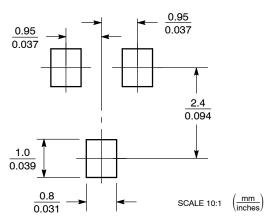


NOTES: 1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982. 2. CONTROLLING DIMENSION: MILLIMETER.

	MILLIMETERS			INCHES		
DIM	MIN	NOM	MAX	MIN	NOM	MAX
Α	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
σ	0.35	0.43	0.50	0.014	0.017	0.020
С	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
Е	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
Г	0.20	0.40	0.60	0.008	0.016	0.024
HE	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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