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General Purpose Amplifier Transistors MSA1162GT1G

PNP Surface Mount

Features

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

MAXIMUM RATINGS (T_A = 25°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	۱ _C	100	mAdc
Collector Current – Peak	I _{C(P)}	200	mAdc

THERMAL CHARACTERISTICS

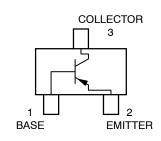
Characteristic	Symbol	Max	Unit
Power Dissipation	PD	200	mW
Junction Temperature	TJ	150	°C
Storage Temperature	T _{stg}	-55 to +150	°C

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)

Symbol	Min	Max	Unit	
V _{(BR)CEO}	50	-	Vdc	
V _{(BR)CBO}	60	-	Vdc	
V _{(BR)EBO}	7.0	-	Vdc	
I _{CBO}	-	0.1	μAdc	
I _{CEO}		0.1 2.0 1.0	μAdc μAdc mAdc	
h _{FE}	200	400	-	
V _{CE(sat)}	-	0.5	Vdc	
f _T	80	_	MHz	
	V _{(BR)CEO} V _{(BR)CBO} V _{(BR)EBO} I _{CBO} I _{CEO} h _{FE} V _{CE(sat)}	V _{(BR)CEO} 50 V _{(BR)CBO} 60 V _{(BR)EBO} 7.0 I _{CBO} - I _{CEO} - I _{CEO} - V _{(ER)EBO} 200 V _{CE(sat)} - f _T -	$\begin{array}{c c} V_{(BR)CEO} & 50 & - \\ \hline V_{(BR)CBO} & 60 & - \\ \hline V_{(BR)EBO} & 7.0 & - \\ \hline I_{CBO} & - & 0.1 \\ \hline I_{CEO} & - & 0.1 \\ - & 2.0 \\ - & 1.0 \\ \hline h_{FE} & 200 & 400 \\ \hline V_{CE(sat)} & - & 0.5 \\ \hline f_{T} & & \\ \end{array}$	

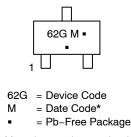
1. Pulse Test: Pulse Width \leq 300 µs, D.C. \leq 2%.





SC-59 CASE 318D STYLE 1

MARKING DIAGRAM



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

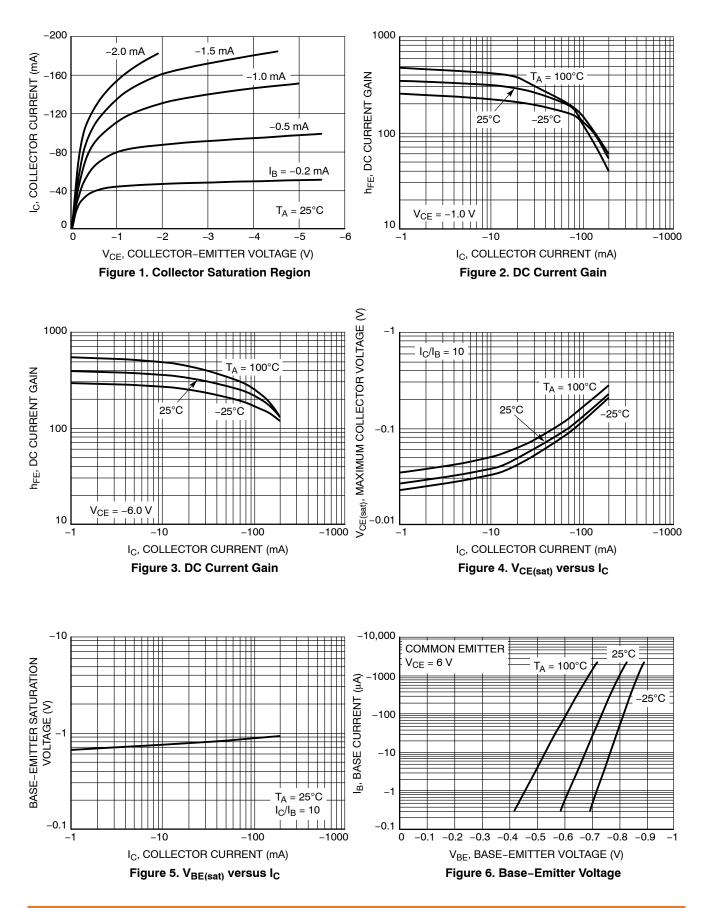
ORDERING INFORMATION

Device	Package	Shipping [†]
MSA1162GT1G	SC–59 (Pb–Free)	3000/Tape & Reel

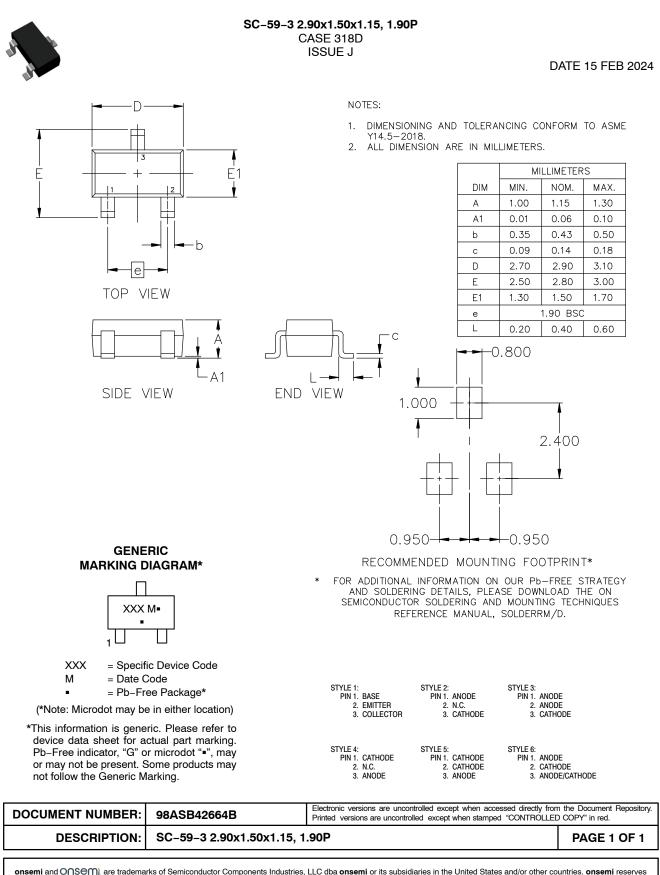
+For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specifications Brochure, <u>BRD8011/D.</u>

MSA1162GT1G

TYPICAL ELECTRICAL CHARACTERISTICS



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