

SOT-23 Formed SMD Package

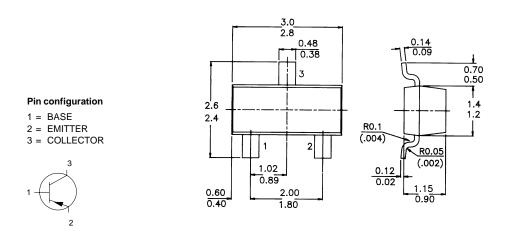
CSA1362

LOW FREQUENCY POWER AMPLIFIER TRANSISTOR

P-N-P transistor

Marking CSA1362GR = 62

PACKAGE OUTLINE DETAILS ALL DIMENSIONS IN mm



ABSOLUTE MAXIMUM RATINGS

Collector-base voltage (open emitter)	$-V_{CBO}$	max.	15	V
Collector-emitter voltage (open base)	$-V_{CEO}$	max.	15	V
Emitter-base voltage (open collector)	$-V_{EBO}$	max.	5	V
Collector current (d.c.)	$-I_C$	max.	800	mА
Total power dissipation at $T_{amb} = 25^{\circ}C$	P _{tot}	max	200	mW
Junction temperature	T_i	max.	150	° C
D.C. current gain	5			
$-I_C = 100 \text{ mA; } -V_{CE} = 1 \text{ V}$	h _{FE}	min.	120	
		max.	400	

RATINGS (at $T_A = 25^{\circ}C$ unless otherwise specified) Limiting values Collector-base voltage (open emitter) 15 V $-V_{CBO}$ max. Collector-emitter voltage (open base) $-V_{CEO}$ max. 15 VEmitter-base voltage (open collector) $-V_{EBO}$ 5 Vmax. Collector current (d.c.) $-I_C$ 800 mA max. Total power dissipation at $T_{amb} = 25^{\circ}C$ P_{tot} max 200 mW

Storage temperature	T _{stg}		o +150	
Junction temperature	Tj	max.	150	°C
THERMAL CHARACTERISTICS $T_j = P (R_{th j-t} + R_{th s-a}) + T_{amb}$ Thermal resistance				
from junction to ambient	R _{th j-a}		556	°C/mW
CHARACTERISTICS (at $T_A = 25^{\circ}C$ unless otherwise Collector-emitter breakdown voltage	se specified)			
$-I_C = 10 \text{ mA}$	-V(BR)CEC) <i>min.</i>	15	V
Collector cut-off current				
$-V_{CB} = 15 V$	-I _{CBO}	max.	100	nA
Emitter cut-off current $V_{EB} = 5 V$	I _{EBO}	max.	100	nA
Saturation voltages $-I_C = 400 \text{ mA}; -I_B = 8 \text{ mA}$	-V _{CEsat}	max.	0.25	V
Base Emitter on voltage $I_C = 10 \text{ mA}, V_{CE} = 1 \text{ V}$	-V _{BE(on)}	min.	0.5	V
		max.	0.8	V
D.C. current gain				
$I_C = 100 \text{ mA}; -V_{CE} = 1 \text{ V}$	hFE	min. max.	120 400	
	Y	min. max.	120 240	
	GR	min. max.	200 400	
$I_C = 800 \text{ mA}; V_{CE} = 1 V$		min.	40	
Transition frequency $V_{CE} = 5V, I_C = 10 \text{ mA}$	f_T	typ.	120	MHz
	1	J r -		
Collector output capacitance $V_{CB} = 10V, I_E = 0, f = 1 MHz$	Cob	typ.	13	рF

Notes

Disclaimer

The product information and the selection guides facilitate selection of the CDIL's Discrete Semiconductor Device(s) best suited for application in your product(s) as per your requirement. It is recommended that you completely review our Data Sheet(s) so as to confirm that the Device(s) meet functionality parameters for your application. The information furnished on the CDIL Web Site/CD is believed to be accurate and reliable. CDIL however, does not assume responsibility for inaccuracies or incomplete information. Furthermore, CDIL does not assume liability whatsoever, arising out of the application or use of any CDIL product; neither does it convey any license under its patent rights nor rights of others. These products are not designed for use in life saving/support appliances or systems. CDIL customers selling these products (either as individual Discrete Semiconductor Devices or incorporated in their end products), in any life saving/support appliances or systems or applications do so at their own risk and CDIL will not be responsible for any damages resulting from such sale(s).

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Data Sheet