

**DESCRIPTION**

The 2SA1362-Y & 2SA1362-G are available in SOT-23 package.

ORDERING INFORMATION

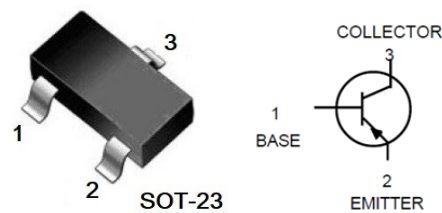
Package Type	Part Number
SOT-23	2SA1362-Y
	2SA1362-G
SPQ	3,000pcs/Reel
AiT provides all RoHS Compliant Products	

 h_{FE} CLASSIFICATION

Rank	Range
Y	120 ~ 240
G	200 ~ 400

PIN DESCRIPTION

- Suitable for the driver stage of small motors.
- Small Package

PIN DESCRIPTION

PIN#	DESCRIPTION
1	Base
2	Emitter
3	Collector

ABSOLUTE MAXIMUM RATINGS

$T_A = 25^\circ\text{C}$, unless otherwise specified.

V_{CBO} , Collector-Base Voltage	-15 V
V_{CEO} , Collector-Emitter Voltage	-15 V
V_{EBO} , Emitter-Base Voltage	-5 V
I_C , Collector Current	-800 mA
I_B , Base Current	-160 mA
P_C , Collector Dissipation	200 mW
T_J , Junction Temperature	150 °C
T_{stg} , Storage Temperature	-55 ~ +150 °C

Stresses above may cause permanent damage to the device. These are stress ratings only and functional operation of the device at these or any other conditions beyond those indicated in the Electrical Characteristics are not implied. Exposure to absolute maximum rating conditions for extended periods may affect device reliability.



ELECTRICAL CHARACTERISTICS

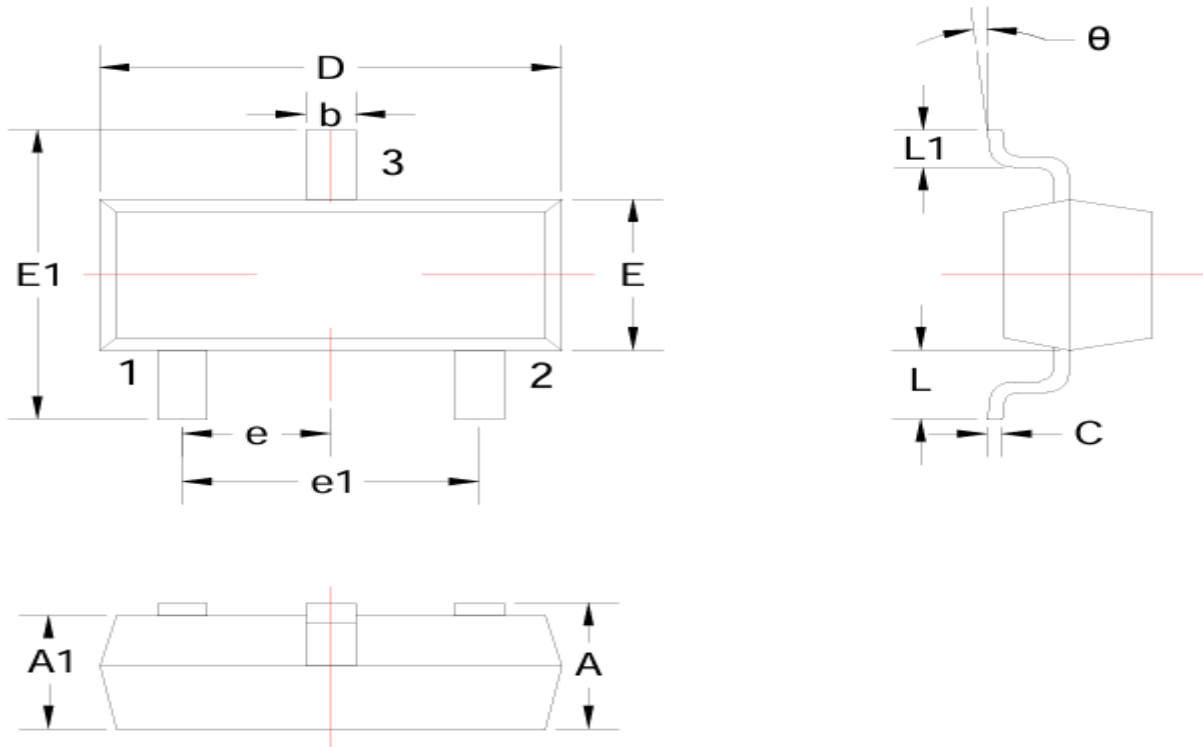
$T_A=25^{\circ}\text{C}$ unless otherwise specified.

Parameter	Symbols	Conditions	Min.	Typ.	Max.	Unit
Collector Cut-off Current	I_{CBO}	$V_{CB} = -15\text{ V}, I_E = 0$	-	-	-100	nA
Emitter Cut-off Current	I_{EBO}	$V_{EB} = -5\text{ V}, I_C = 0$	-	-	-100	nA
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C = -10\text{ mA}, I_B = 0$	-15	-	-	V
DC Current Gain	h_{FE}	$V_{CE} = -1\text{ V},$ $I_C = -100\text{ mA}$	120	-	400	-
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = -400\text{ mA},$ $I_B = -8\text{ mA},$	-	-	-0.2	V
Base-Emitter Voltage	V_{BE}	$V_{CE} = -1\text{ V},$ $I_C = -10\text{ mA}$	-0.5	-	-0.8	V
Transition Frequency	f_T	$V_{CE} = -5\text{ V},$ $I_C = -10\text{ mA}$	-	120	-	MHz
Collector Output Capacitance	C_{ob}	$V_{CB} = -10\text{ V},$ $I_E = 0, f=1\text{Mhz}$	-	13	-	pF



PACKAGE INFORMATION

Dimension in SOT-23 (Unit: mm)



Symbol	Millimeter	
	Min.	Max.
A	0.900	1.150
A1	0.900	1.050
b	0.300	0.500
c	0.080	0.150
D	2.800	3.000
E	1.200	1.400
E1	2.250	2.550
e	0.950 TYP.	
e1	1.800	2.000
L	0.550 REF	
L1	0.300	0.500
θ	0°	8°



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