2SA562M

Rev.F Apr.-2017

DATA SHEET

/ Descriptions

VRW056 ṂṂ Ł SQS Æ Ṁ ч s ‖ ㄱ Silicon PNP transistor in a SOT-23 Plastic Package.

/ Features

‖ Ḅ k IH ≠ ớ /ль 5VF4<8< P Ӣ ´

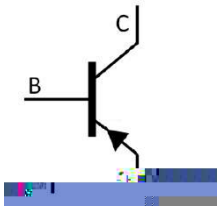
Excellent h_{FE} linearity, complementary pair with 2SC1959M.

/ Applications

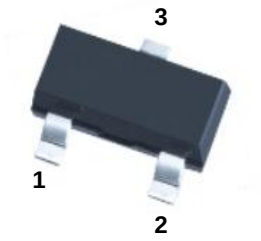
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Audio frequency low power amplifier, driver stage amplifier, switching applications.

/ Equivalent Circuit



/ Pinning



PIN1 χ Base PIN 2 χ Emitter PIN 3 χ Collector

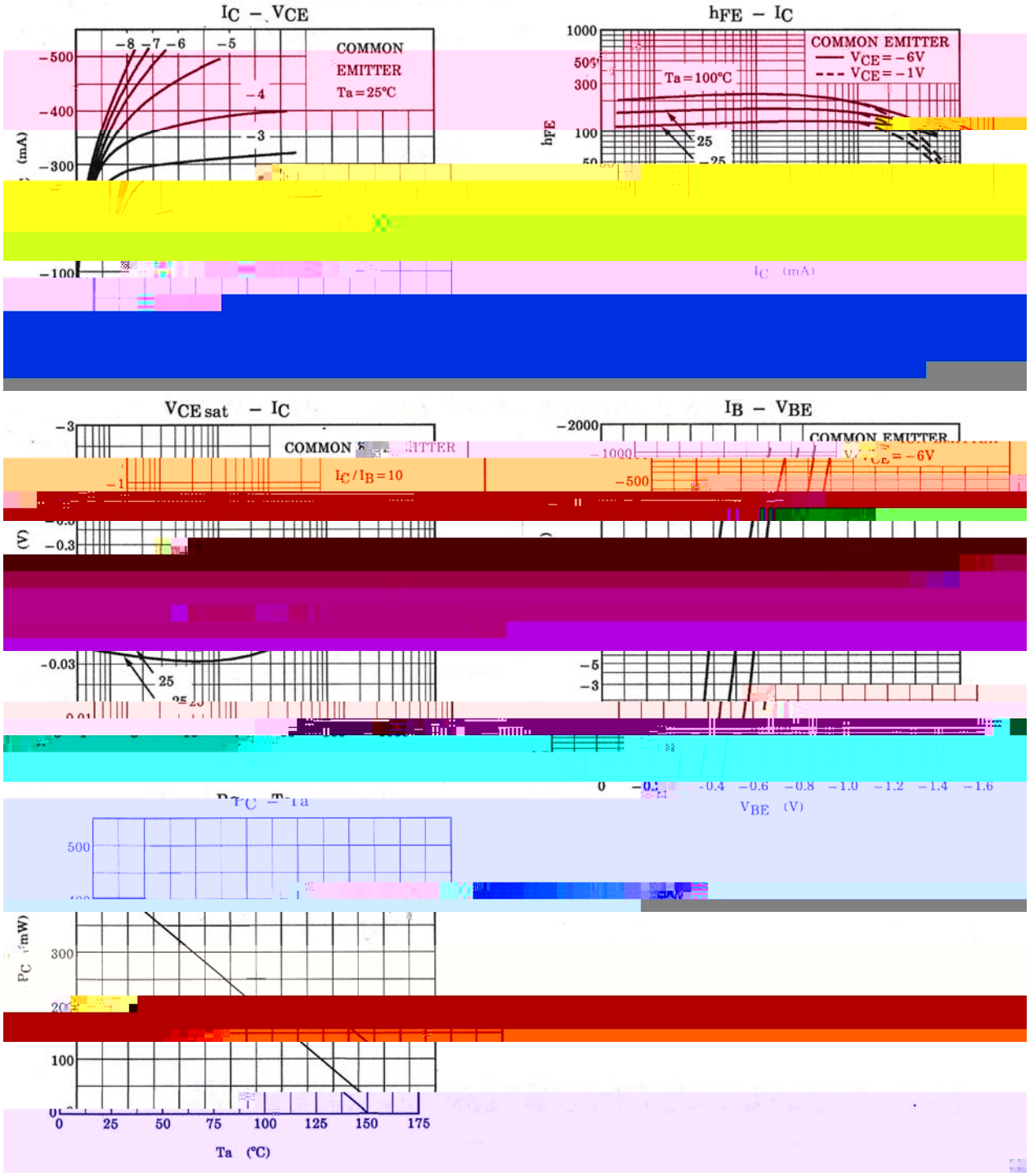
/ h_{FE} Classifications & Marking

h_{FE} Classifications Symbol	O	Y
h_{FE} Range	70 140	120 240
Marking	HVAO	HVAY

v ̈Ω Parameter	٩ N Symbol	̈Ω Ö Rating	D Ч Unit
Collector to Base Voltage	V_{CBO}	-35	V
Collector to Emitter Voltage	V_{CEO}	-30	V
Emitter to Base Voltage	V_{EBO}	-5.0	V
Collector Current	I_C	-500	mA
Collector Base	I_B	-100	mA
Collector Power Dissipation	P_C	400	mW
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55 150	

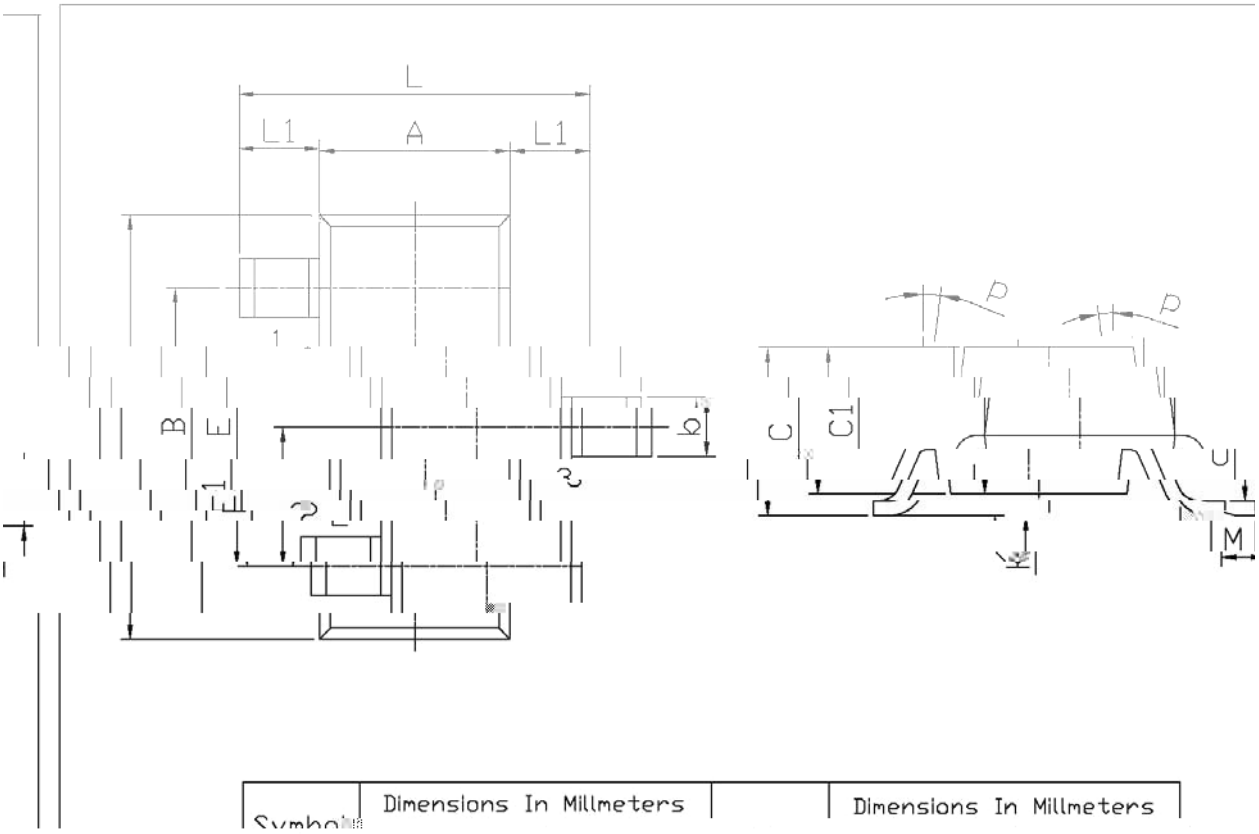
v ̈Ω Parameter	٩ N Symbol	‗ :ˆ Ţ Test Conditions	ώ ņ Ö Min	Ε ʒ Ö Typ	ώ ² Ö Max	D Ч Unit
Collector Cut-Off Current	I_{CBO}	V_{CB}=-35V I_E=0			-0.1	μA
Emitter Base Cut-Off Current	I_{EBO}	V_{EB}=-5.0V I_C=0			-0.1	μA
DC Current Gain	$h_{FE(1)}$	V_{CE}=-1.0V I_C=-100mA	70		240	
	$h_{FE(2)}$	V_{CE}=-6.0V I_C=-400mA	25			
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	I_C=-100mA I_B=-10mA		-0.1	-0.25	V
Collector to Base Voltage	V_{BE}	V_{CE}=-1.0V I_C=-100mA		-0.8	-1.0	V
Transition Frequency	f_T	V_{CE}=-6.0V I_C=-20mA		200		MHz
Collector Output Capacitance	C_{ob}	V_{CB}=-6.0V I_E=0 f=1.0MHz		13		pF

/ Electrical Characteristic Curve



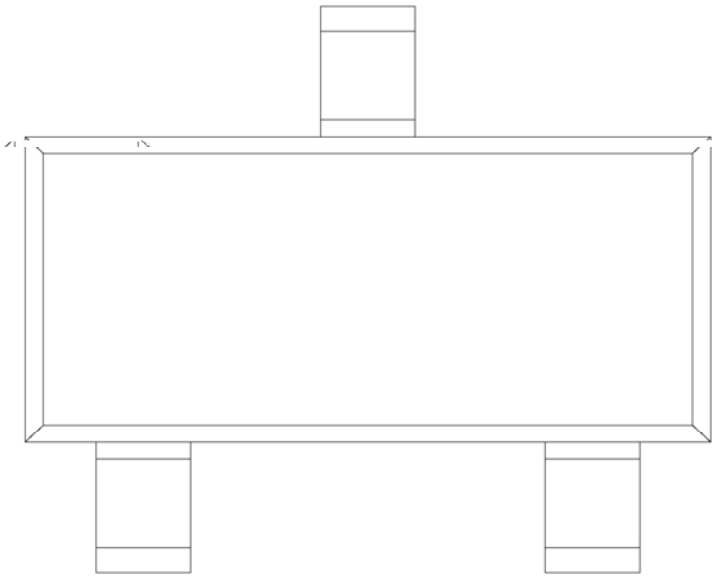
/ Package Dimensions

SOT-23 单位：mm



Symbol	Dimensions In Millmeters		Dimensions In Millmeters	
	Min	Max	Min	Max
A	0.900	1.150	0.035	0.045
A1	0.000	0.100	0.000	0.004
A2	0.900	1.050	0.035	0.041
b	0.300	0.500	0.012	0.020
c	0.080	0.150	0.003	0.006
D	2.800	3.000	0.110	0.118
E	1.200	1.400	0.047	0.055
E1	2.250	2.550	0.089	0.100
e	1.800	2.000	0.071	0.079
e1	0.850	1.050	0.033	0.041
L	0.550 REF		0.022 REF	
L1	0.300	0.500	0.012	0.020
θ	0°	8°	0°	8°

/ Marking Instructions



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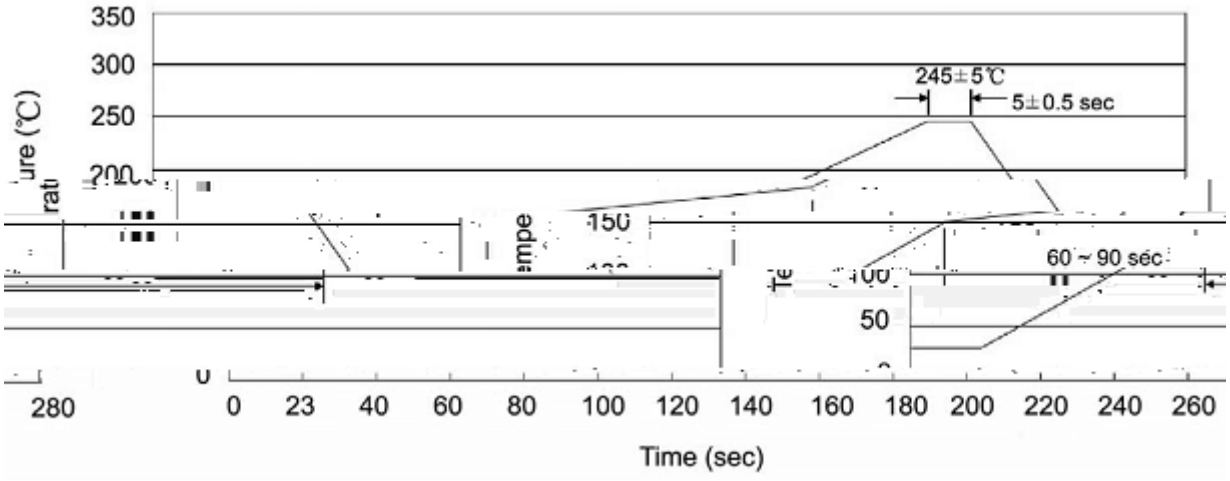
YD χ ѭ ʒ N Ґ

R χ ѭ h_{FE} 6 Ѫ Ґ

Note:

H: Company Code.

( ) /



ب ˝ χ

1 Ĺ ♬ □ ỷ 25 Ḱ 150 ł ı ˋH ڑ 60 Ḱ 90sec;

2 Š Ë □ ỷ 245 ° 5 ł ı ˋH ڑ ˋY ﾊ ㎞ 5 ° 0.5sec;

3 ì ˙ ﾘ ˛ ɔ ๛ ỷ ㎞ 2 Ḱ 10 ł /sec.

Note:

1.Preheating:25~150 ł , Time:60~90sec.

2.Peak Temp.:245 ° 5 ł , Duration:5 ° 0.5sec.

3. Cooling Speed: 2~10 ł /sec.

/ Resistance to Soldering Heat Test Conditions

□ ỷ χ 260 ° 5 ł ˋH ڑ χ 10 ° 1 sec. Temp.:260 ° 5 ł Time:10 ° 1 sec

/ Packaging SPEC.

ɔ ` ﾘ Ł / REEL

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm^3)		
	Units/Reel 只/卷盘	Reels/Inner Box 卷盘/盒	Units/Inner Box 只/盒	Inner Boxes/Outer Box 盒/箱	Units/Outer Box 只/箱	Reel	Inner Box 盒	Outer Box 箱