/ Descriptions

SOT-23 NPN Silicon NPN transistor in a SOT-23 Plastic Package.

/ Features

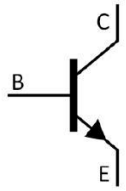
2SB709A

Complementary pair with 2SB709A.

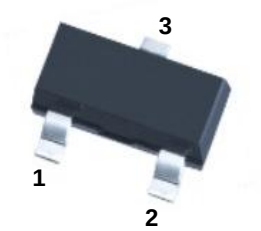
/ Applications

General power amplifier applications

/ Equivalent Circuit



/ Pinning



PIN1 Base PIN 2 Emitter PIN 3 Collector

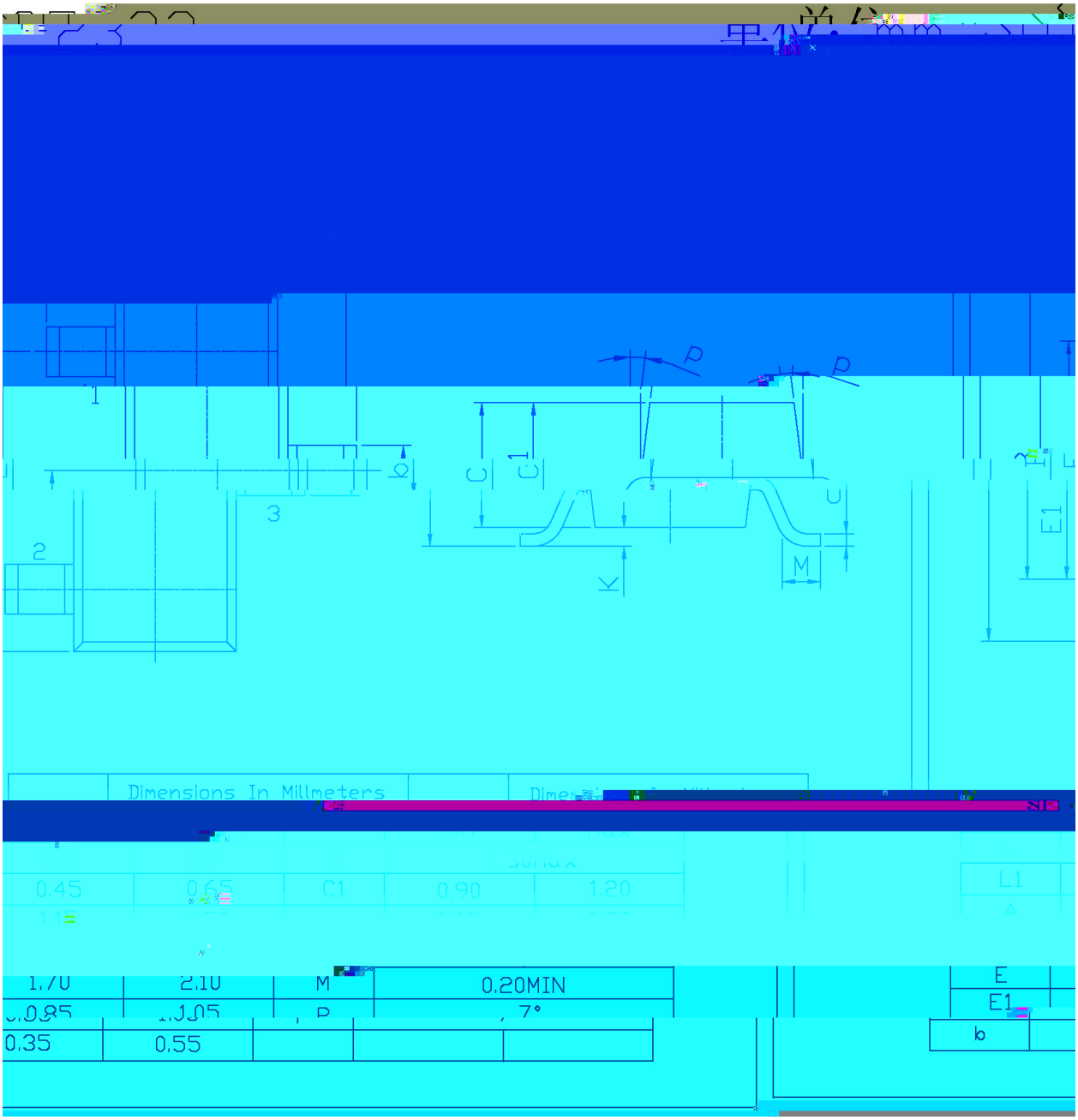
/ h_{FE} Classifications & Marking

h_{FE} Classifications Symbol	Q	R	S
h_{FE} Range	160-260	210-340	290-460
Marking	H1ZQ	H1ZR	H1ZS

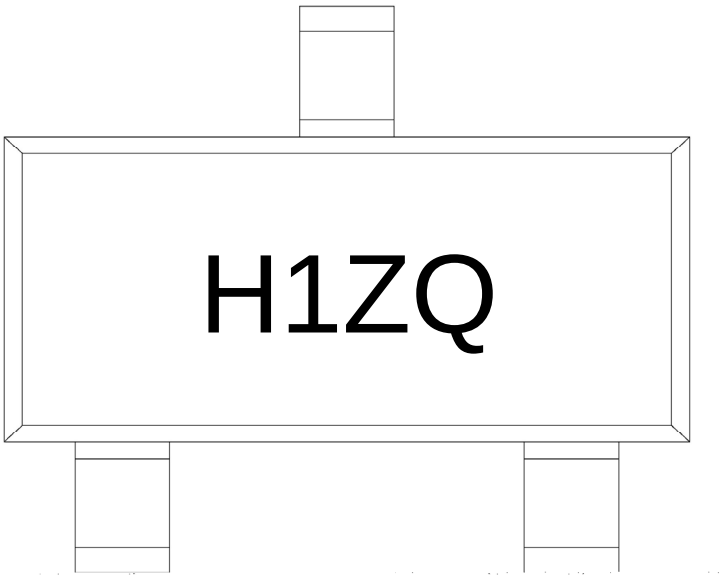
Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	60	V
Collector to Emitter Voltage	V_{CEO}	50	V
Emitter to Base Voltage	V_{EBO}	7.0	V
Collector Current	I_C	100	mA
Collector Current	I_{CP}	200	mA
Collector Power Dissipation	P_C	200	mW
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55 150	

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector Cut-Off Current	I_{CBO}	V_{CB}=20V I_E=0			0.1	μA
Emitter Base Cut-Off Current	I_{EBO}	V_{CE}=10V I_B=0			100	μA
Collector-Base Breakdown Voltage	V_{CBO}	I_C=10				

/ Package Dimensions



/ Marking Instructions



H

1Z

Q: h_{FE}

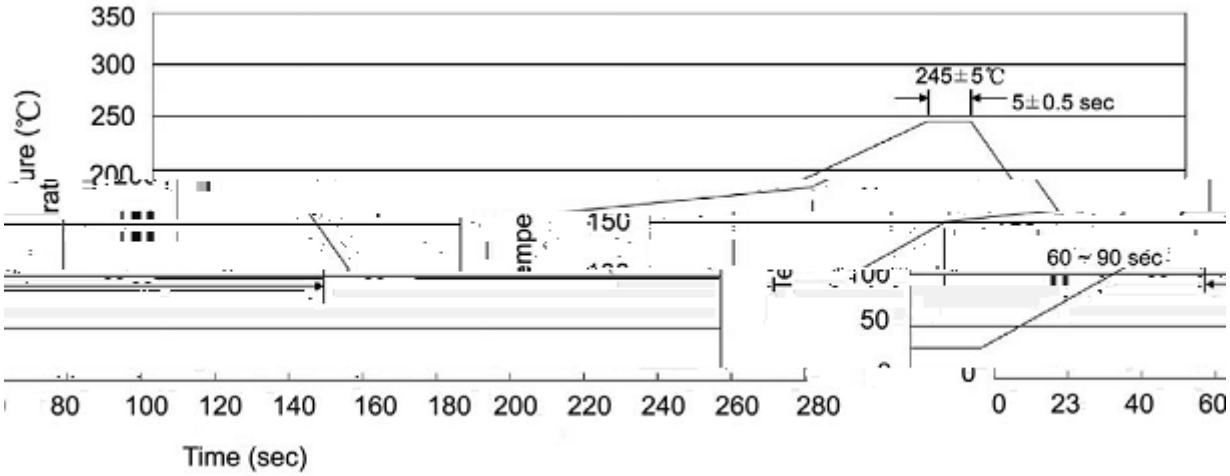
Note:

H: Company Code

1Z: Product Type Code

Q: h_{FE} Classifications Symbol Code

( ) / Temperature Profile for IR Reflow Soldering(Pb-Free)



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