

/ Descriptions

VRW056 M M E SQS æ M y s ll 1 Silicon PNP transistor in a SOT-23 Plastic Package.

/ Features

ت ر ه ا ع ل ز

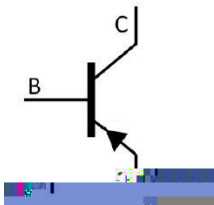
Low $V_{CE(sat)}$, high current.

/ Applications

ᄀ ᄁ ᄂ ᄃ ᄄ ᄅ ᄆ ᄇ ᄈ ᄉ ᄊ ᄋ ᄌ ᄍ ᄎ ᄏ ᄐ ᄑ ᄒ ᄓ ᄔ ᄕ ᄖ ᄗ ᄘ ᄙ ᄚ ᄛ ᄜ ᄝ ᄞ ᄟ ᄠ ᄡ ᄢ ᄣ ᄤ ᄥ ᄦ ᄧ ᄨ ᄩ ᄪ ᄫ ᄬ ᄭ ᄮ ᄯ ᄰ ᄱ ᄲ ᄳ ᄴ ᄵ ᄶ ᄷ ᄸ ᄹ ᄺ ᄻ ᄼ ᄽ ᄾ ᄿ ᅀ ᅁ ᅂ ᅃ ᅄ ᅅ ᅆ ᅇ ᅈ ᅉ ᅊ ᅋ ᅌ ᅍ ᅎ ᅏ ᅐ ᅑ ᅒ ᅓ ᅔ ᅕ ᅖ ᅗ ᅘ ᅙ ᅚ ᅛ ᅜ ᅝ ᅞ ᅟ ᅠ ᅡ ᅢ ᅣ ᅤ ᅥ ᅦ ᅧ ᅨ ᅩ ᅪ ᅫ ᅬ ᅭ ᅮ ᅯ ᅰ ᅱ ᅲ ᅳ ᅴ ᅵ ᅶ ᅷ ᅸ ᅹ ᆀ ᆁ ᆂ ᆃ ᆄ ᆅ ᆆ ᆇ ᆈ ᆉ ᆊ ᆋ ᆌ ᆍ ᆎ ᆏ ᆐ ᆑ ᆒ ᆓ ᆔ ᆕ ᆖ ᆗ ᆘ ᆙ ᆚ ᆛ ᆜ ᆝ ᆞ ᆟ ᆠ ᆡ ᆢ ᆣ ᆤ ᆥ ᆦ ᆧ ᆨ ᆩ ᆪ ᆫ ᆬ ᆭ ᆮ ᆯ ᆰ ᆱ ᆲ ᆳ ᆴ ᆵ ᆶ ᆷ ᆸ ᆹ ᆺ ᆻ ᆼ ᆽ ᆾ ᆿ ᇀ ᇁ ᇂ ᇃ ᇄ ᇅ ᇆ ᇇ ᇈ ᇉ ᇊ ᇋ ᇌ ᇍ ᇎ ᇏ ᇐ ᇑ ᇒ ᇓ ᇔ ᇕ ᇖ ᇗ ᇘ ᇙ ᇚ ᇛ ᇜ ᇝ ᇞ ᇟ ᇠ ᇡ ᇢ ᇣ ᇤ ᇥ ᇦ ᇧ ᇨ ᇩ ᇪ ᇫ ᇬ ᇭ ᇮ ᇯ ᇰ ᇱ ᇲ ᇳ ᇴ ᇵ ᇶ ᇷ ᇸ ᇹ ᇺ ᇻ ᇼ ᇽ ᇾ ᇿ ሀ ሁ ሂ ሃ ሄ ህ ሆ ሇ ለ ል ሐ ሑ ሒ ሓ ሔ ሕ ሖ ሗ መ ሙ ሚ ማ ሜ ም ሞ ሟ ሠ ሡ ሢ ሣ ሤ ሥ ሦ ሧ ረ ሩ ሪ ራ ሴ ስ ሶ ሷ ሸ ሹ ሺ ሻ ሼ ሽ ሾ ሿ ጀ ጁ ጂ ጃ ጄ ጅ ጆ ጇ ገ ጉ ጊ ጋ ጌ ግ ጎ ጐ ጑ ጒ ጓ ጔ ጕ ጖ ጗ ጘ ጙ ጚ ጛ ጜ ጝ ጞ ጟ ጠ ጡ ጢ ጣ ጤ ጥ ጦ ጧ ጨ ጩ ጪ ጫ ጬ ጭ ጮ ጯ ጰ ጱ ጲ ጳ ጴ ጵ ጶ ጷ ጸ ጹ ጺ ጻ ጼ ጽ ጾ ጿ ፀ ፁ ፂ ፃ ፄ ፅ ፆ ፇ ፈ ፉ ፊ ፋ ፍ ፈ ፏ ፐ ፑ ፒ ፓ ፔ ፕ ፖ ፗ ፘ ፙ ፚ ፛ ፜ ፝ ፞ ፟ ፠ ፡ ። ፣ ፤ ፥ ፦ ፧ ፨ ፩ ፪ ፫ ፬ ፭ ፮ ፯ ፰ ፱ ፲ ፳ ፴ ፵ ፶ ፷ ፸ ፹ ፺ ፻ ፼ ፽ ፿ Ꮐ Ꮑ Ꮒ Ꮓ Ꮔ Ꮕ Ꮖ Ꮗ Ꮘ Ꮙ Ꮚ Ꮛ Ꮜ Ꮝ Ꮞ Ꮟ Ꮠ Ꮡ Ꮢ Ꮣ Ꮤ Ꮥ Ꮦ Ꮧ Ꮨ Ꮩ Ꮪ Ꮫ Ꮬ Ꮭ Ꮮ Ꮯ Ꮰ Ꮱ Ꮲ Ꮳ Ꮴ Ꮵ Ꮶ Ꮷ Ꮸ Ꮹ Ꮺ Ꮻ Ꮼ Ꮽ Ꮾ Ꮿ Ᏸ Ᏹ Ᏺ Ᏻ Ᏼ Ᏽ ᏶ ᏷ ᏸ ᏹ ᏺ ᏻ ᏼ ᏽ ᏾ ᏿ ᐀ ᐁ ᐂ ᐃ ᐄ ᐅ ᐆ ᐇ ᐈ ᐉ ᐊ ᐋ ᐌ ᐍ ᐎ ᐏ ᐐ ᐑ ᐒ ᐓ ᐔ ᐕ ᐖ ᐗ ᐘ ᐙ ᐚ ᐛ ᐜ ᐝ ᐞ ᐟ ᐠ ᐡ ᐢ ᐣ ᐤ ᐥ ᐦ ᐧ ᐨ ᐩ ᐪ ᐫ ᐬ ᐭ ᐮ ᐯ ᐰ ᐱ ᐲ ᐳ ᐴ ᐵ ᐶ ᐷ ᐸ ᐹ ᐺ ᐻ ᐼ ᐽ ᐾ ᐿ ᑀ ᑁ ᑂ ᑃ ᑄ ᑅ ᑆ ᑇ ᑈ ᑉ ᑊ ᑋ ᑌ ᑍ ᑎ ᑏ ᑐ ᑑ ᑒ ᑓ ᑔ ᑕ ᑖ ᑗ ᑘ ᑙ ᑚ ᑛ ᑜ ᑝ ᑞ ᑟ ᑠ ᑡ ᑢ ᑣ ᑤ ᑥ ᑦ ᑧ ᑨ ᑩ ᑪ ᑫ ᑬ ᑭ ᑮ ᑯ ᑰ ᑱ ᑲ ᑳ ᑴ ᑵ ᑶ ᑷ ᑸ ᑹ ᑺ ᑻ ᑼ ᑽ ᑾ ᑿ ᒀ ᒁ ᒂ ᒃ ᒄ ᒅ ᒆ ᒇ ᒈ ᒉ ᒊ ᒋ ᒌ ᒍ ᒎ ᒏ ᒐ ᒑ ᒒ ᒓ ᒔ ᒕ ᒖ ᒗ ᒘ ᒙ ᒚ ᒛ ᒜ ᒝ ᒞ ᒟ ᒠ ᒡ ᒢ ᒣ ᒤ ᒥ ᒦ ᒧ ᒨ ᒩ ᒪ ᒫ ᒬ ᒭ ᒮ ᒯ ᒰ ᒱ ᒲ ᒳ ᒴ ᒵ ᒶ ᒷ ᒸ ᒹ ᒺ ᒻ ᒼ ᒽ ᒾ ᒿ ᓀ ᓁ ᓂ ᓃ ᓄ ᓅ ᓆ ᓇ ᓈ ᓉ ᓊ ᓋ ᓌ ᓍ ᓎ ᓏ ᓐ ᓑ ᓒ ᓓ ᓔ ᓕ ᓖ ᓗ ᓘ ᓙ ᓚ ᓛ ᓜ ᓝ ᓞ ᓟ ᓠ ᓡ ᓢ ᓣ ᓤ ᓥ ᓦ ᓧ ᓨ ᓩ ᓪ ᓫ ᓬ ᓭ ᓮ ᓯ ᓰ ᓱ ᓲ ᓳ ᓴ ᓵ ᓶ ᓷ ᓸ ᓹ ᓺ ᓻ ᓼ ᓽ ᓾ ᓿ ᔀ ᔁ ᔂ ᔃ ᔄ ᔅ ᔆ ᔇ ᔈ ᔉ ᔊ ᔋ ᔌ ᔍ ᔎ ᔏ ᔐ ᔑ ᔒ ᔓ ᔔ ᔕ ᔖ ᔗ ᔘ ᔙ ᔚ ᔛ ᔜ ᔝ ᔞ ᔟ ᔠ ᔡ ᔢ ᔣ ᔤ ᔥ ᔦ ᔧ ᔨ ᔩ ᔪ ᔫ ᔬ ᔭ ᔮ ᔯ ᔰ ᔱ ᔲ ᔳ ᔴ ᔵ ᔶ ᔷ ᔸ ᔹ ᔺ ᔻ ᔼ ᔽ ᔾ ᔿ ᕀ ᕁ ᕂ ᕃ ᕄ ᕅ ᕆ ᕇ ᕈ ᕉ ᕊ ᕋ ᕌ ᕍ ᕎ ᕏ ᕐ ᕑ ᕒ ᕓ ᕔ ᕕ ᕖ ᕗ ᕘ ᕙ ᕚ ᕛ ᕜ ᕝ ᕞ ᕟ ᕠ ᕡ ᕢ ᕣ ᕤ ᕥ ᕦ ᕧ ᕨ ᕩ ᕪ ᕫ ᕬ ᕭ ᕮ ᕯ ᕰ ᕱ ᕲ ᕳ ᕴ ᕵ ᕶ ᕷ ᕸ ᕹ ᕺ ᕻ ᕼ ᕽ ᕾ ᕿ ᖀ ᖁ ᖂ ᖃ ᖄ ᖅ ᖆ ᖇ ᖈ ᖉ ᖊ ᖋ ᖌ ᖍ ᖎ ᖏ ᖐ ᖑ ᖒ ᖓ ᖔ ᖕ ᖖ ᖗ ᖘ ᖙ ᖚ ᖛ ᖜ ᖝ ᖞ ᖟ ᖠ ᖡ ᖢ ᖣ ᖤ ᖥ ᖦ ᖧ ᖨ ᖩ ᖪ ᖫ ᖬ ᖭ ᖮ ᖯ ᖰ ᖱ ᖲ ᖳ ᖴ ᖵ ᖶ ᖷ ᖸ ᖹ ᖺ ᖻ ᖼ ᖽ ᖾ ᖿ ᗀ ᗁ ᗂ ᗃ ᗄ ᗅ ᗆ ᗇ ᗈ ᗉ ᗊ ᗋ ᗌ ᗍ ᗎ ᗏ ᗐ ᗑ ᗒ ᗓ ᗔ ᗕ ᗖ ᗗ ᗘ ᗙ ᗚ ᗛ ᗜ ᗝ ᗞ ᗟ ᗠ ᗡ ᗢ ᗣ ᗤ ᗥ ᗦ ᗧ ᗨ ᗩ ᗪ ᗫ ᗬ ᗭ ᗮ ᗯ ᗰ ᗱ ᗲ ᗳ ᗴ ᗵ ᗶ ᗷ ᗸ ᗹ ᗺ ᗻ ᗼ ᗽ ᗾ ᗿ ᘀ ᘁ ᘂ ᘃ ᘄ ᘅ ᘆ ᘇ ᘈ ᘉ ᘊ ᘋ ᘌ ᘍ ᘎ ᘏ ᘐ ᘑ ᘒ ᘓ ᘔ ᘕ ᘖ ᘗ ᘘ ᘙ ᘚ ᘛ ᘜ ᘝ ᘞ ᘟ ᘠ ᘡ ᘢ ᘣ ᘤ ᘥ ᘦ ᘧ ᘨ ᘩ ᘪ ᘫ ᘬ ᘭ ᘮ ᘯ ᘰ ᘱ ᘲ ᘳ ᘴ ᘵ ᘶ ᘷ ᘸ ᘹ ᘺ ᘻ ᘼ ᘽ ᘾ ᘿ ᙀ ᙁ ᙂ ᙃ ᙄ ᙅ ᙆ ᙇ ᙈ ᙉ ᙊ ᙋ ᙌ ᙍ ᙎ ᙏ ᙐ ᙑ ᙒ ᙓ ᙔ ᙕ ᙖ ᙗ ᙘ ᙙ ᙚ ᙛ ᙜ ᙝ ᙞ ᙟ ᙠ ᙡ ᙢ ᙣ ᙤ ᙥ ᙦ ᙧ ᙨ ᙩ ᙪ ᙫ ᙬ ᙭ ᙮ ᙯ ᙰ ᙱ ᙲ ᙳ ᙴ ᙵ ᙶ ᙷ ᙸ ᙹ ᙺ ᙻ ᙼ ᙽ ᙾ ᙿ   ᚁ ᚂ ᚃ ᚄ ᚅ ᚆ ᚇ ᚈ ᚉ ᚊ ᚋ ᚌ ᚍ ᚎ ᚏ ᚐ ᚑ ᚒ ᚓ ᚔ ᚕ ᚖ ᚗ ᚘ ᚙ ᚚ ᚛ ᚜ ᚝ ᚞ ᚟ ᚠ ᚡ ᚢ ᚣ ᚤ ᚥ ᚦ ᚧ ᚨ ᚩ ᚪ ᚫ ᚬ ᚭ ᚮ ᚯ ᚰ ᚱ ᚲ ᚳ ᚴ ᚵ ᚶ ᚷ ᚸ ᚹ ᚺ ᚻ ᚼ ᚽ ᚾ ᚿ ᛀ ᛁ ᛂ ᛃ ᛄ ᛅ ᛆ ᛇ ᛈ ᛉ ᛊ ᛋ ᛌ ᛍ ᛎ ᛏ ᛐ ᛑ ᛒ ᛓ ᛔ ᛕ ᛖ ᛗ ᛘ ᛙ ᛚ ᛛ ᛜ ᛝ ᛞ ᛟ ᛠ ᛡ ᛢ ᛣ ᛤ ᛥ ᛦ ᛧ ᛨ ᛩ ᛪ ᛫ ᛬ ᛭ ᛮ ᛯ ᛰ ᛱ ᛲ ᛳ ᛴ ᛵ ᛶ ᛷ ᛸ ᛹ ᛺ ᛻ ᛼ ᛽ ᛾ ᛿ ᜀ ᜁ ᜂ ᜃ ᜄ ᜅ ᜆ ᜇ ᜈ ᜉ ᜊ ᜋ ᜌ ᜍ ᜎ ᜏ ᜐ ᜑ ᜒ ᜓ ᜔ ᜕ ᜖ ᜗ ᜘ ᜙ ᜚ ᜛ ᜜ ᜝ ᜞ ᜟ ᜠ ᜡ ᜢ ᜣ ᜤ ᜥ ᜦ ᜧ ᜨ ᜩ ᜪ ᜫ ᜬ ᜭ ᜮ ᜯ ᜰ ᜱ ᜲ ᜳ ᜴ ᜵ ᜶ ᜷ ᜸ ᜹ ᜺ ᜻ ᜼ ᜽ ᜾ ᜿ ᝀ ᝁ ᝂ ᝃ ᝄ ᝅ ᝆ ᝇ ᝈ ᝉ ᝊ ᝋ ᝌ ᝍ ᝎ ᝏ ᝐ ᝑ ᝒ ᝓ ᝔ ᝕ ᝖ ᝗ ᝘ ᝙ ᝚ ᝛ ᝜ ᝝ ᝞ ᝟ ᝠ ᝡ ᝢ ᝣ ᝤ ᝥ ᝦ ᝧ ᝨ ᝩ ᝪ ᝫ ᝬ ᝭

General purpose switching and muting, LCD back-lighting, supply line switching circuits.

/ Equivalent Circuit



/ Pinning



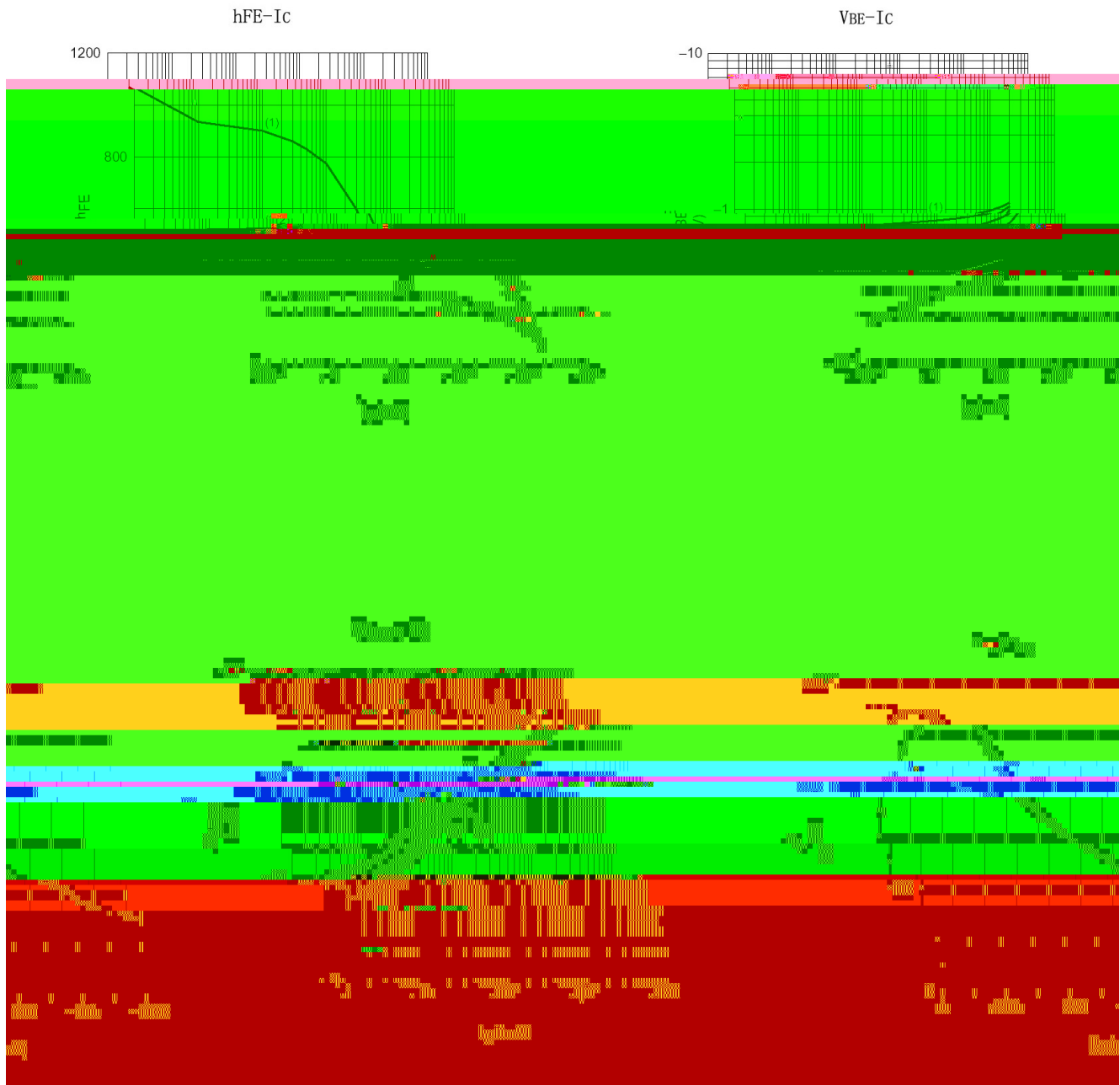
PIN 1 χ Base PIN 2 χ Emitter PIN 3 χ Collector

/ h_{FE} Classifications & Marking

h _{FE} Range	300 800
Marking	HP2H

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	-40	V
Collector to Emitter Voltage	V_{CEO}	-40	V
Emitter to Base Voltage	V_{EBO}	-5.0	V
Collector Current	I_C	-1.0	A
peak collector current	I_{CM}	-2.0	A
peak base current	I_B		

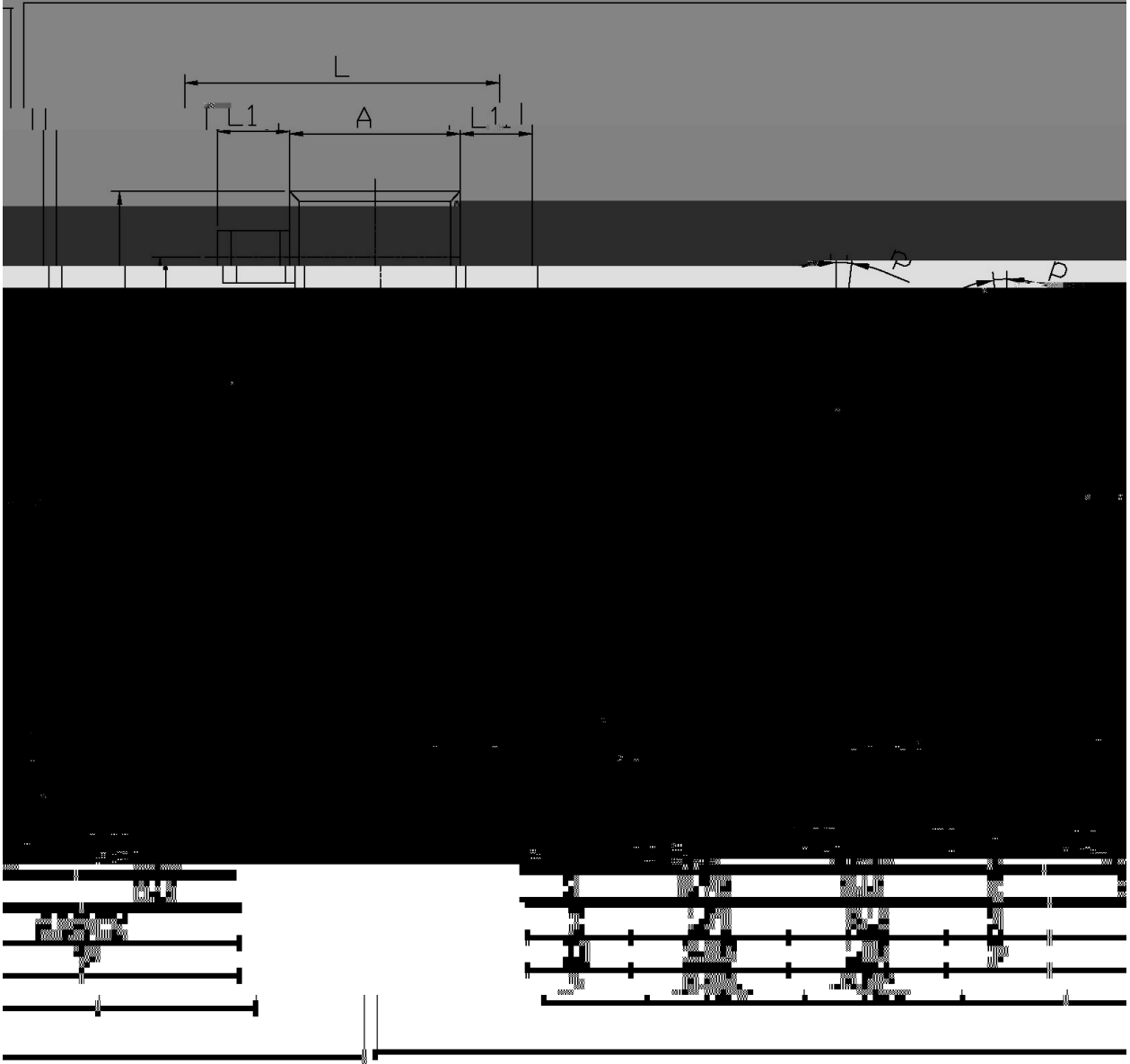
/ Electrical Characteristic Curve



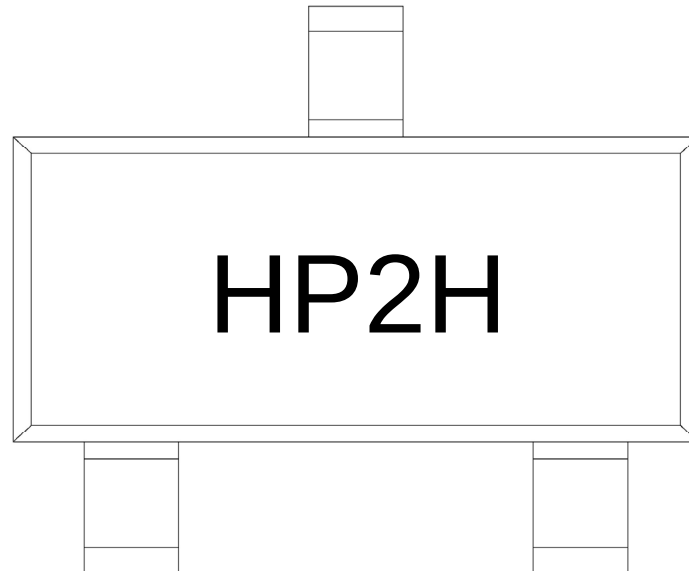
/ Package Dimensions

SOT-23

单位: mm



/ Marking Instructions



б " X

K X № з " П

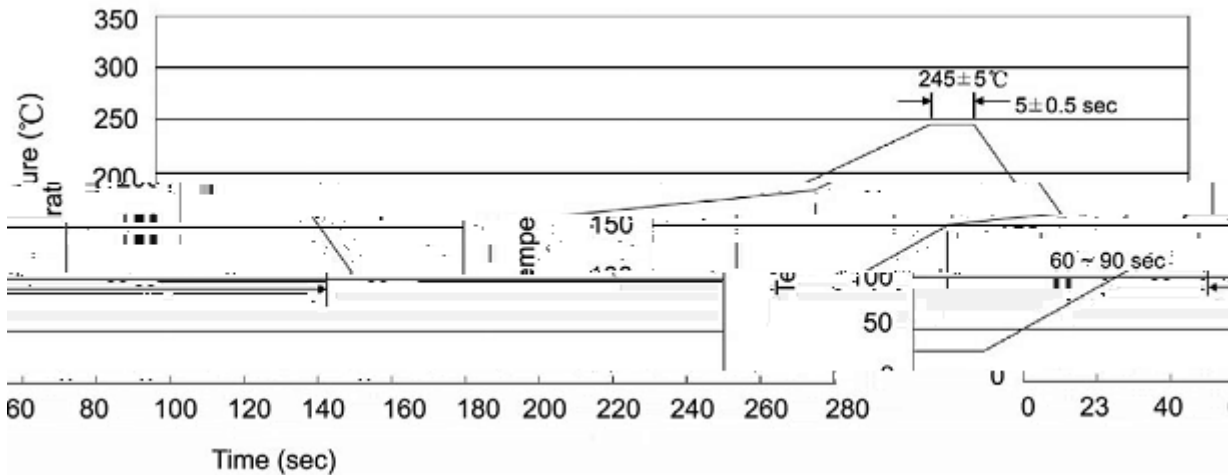
P2H X № з " П

Note:

K X Company Code

P2H X Product Type

() /



C " X

1. 预加热: 25~150 °C, Time: 60~90sec;
2. 峰值温度: 245±5 °C, 持续时间: 5±0.5sec;
3. 冷却速度: 2~10 °C/sec.

Note:

1. Preheating: 25~150 °C, Time: 60~90sec.
2. Peak Temp.: 245±5 °C, Duration: 5±0.5sec.
3. Cooling Speed: 2~10 °C/sec.

/ Resistance to Soldering Heat Test Conditions

□ 预加热: 260±5 °C, Time: 10±1 sec. Temp.: 260±5 Time: 10±1 sec

/ Packaging SPEC.

□ 预加热: / REEL

Package Type	Units					Dimension (unit mm ³)		
	Units/Reel	Reels/Inner Box	Units/Inner Box	Inner Boxes/Outer Box	Units/Outer Box	Reel	Inner Box	Outer Box
SOT-23	3,000	10	30,000	6	180,000	7 × 8	180×120×180	390×385×205