

/ Descriptions

VRW0;<< M M E QSQ æ M y s ll 1 Silicon NPN transistor in a SOT-89 Plastic Package.

/ Features

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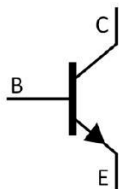
High current, Low saturation voltage.

/ Applications

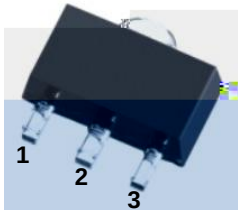
$$\mathbb{H}^n_{\text{loc}} \rightarrow \mathbb{H}^n_{\text{loc}} = \delta \mathbb{H}^n_{\text{loc}} \otimes [\text{OBJ}] \rightarrow \mathbb{H}^n_{\text{loc}}$$

Driver stages of audio and video amplifiers.

/ Equivalent Circuit



/ Pinning



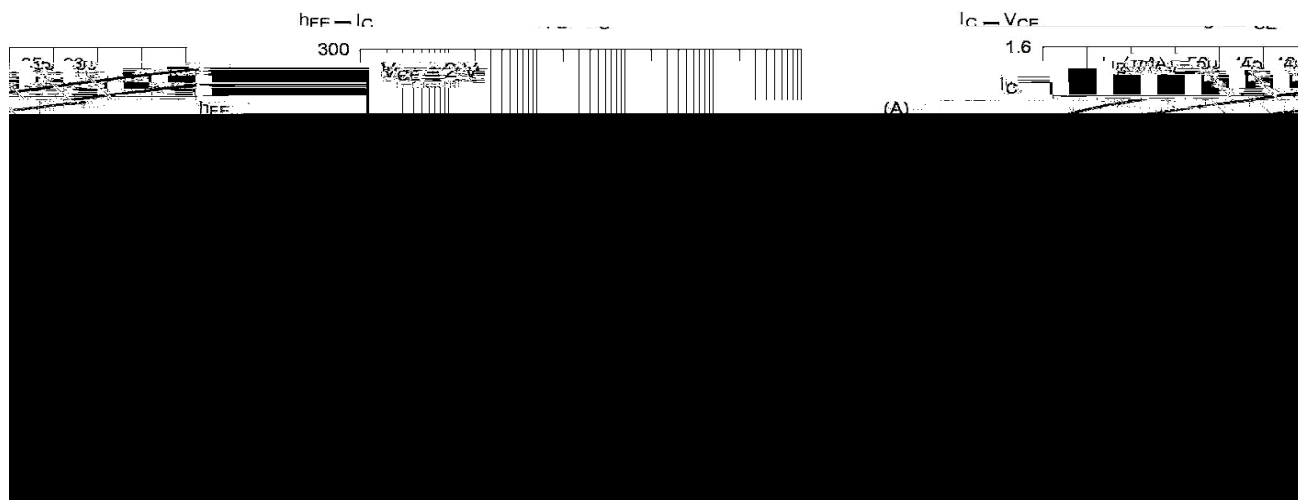
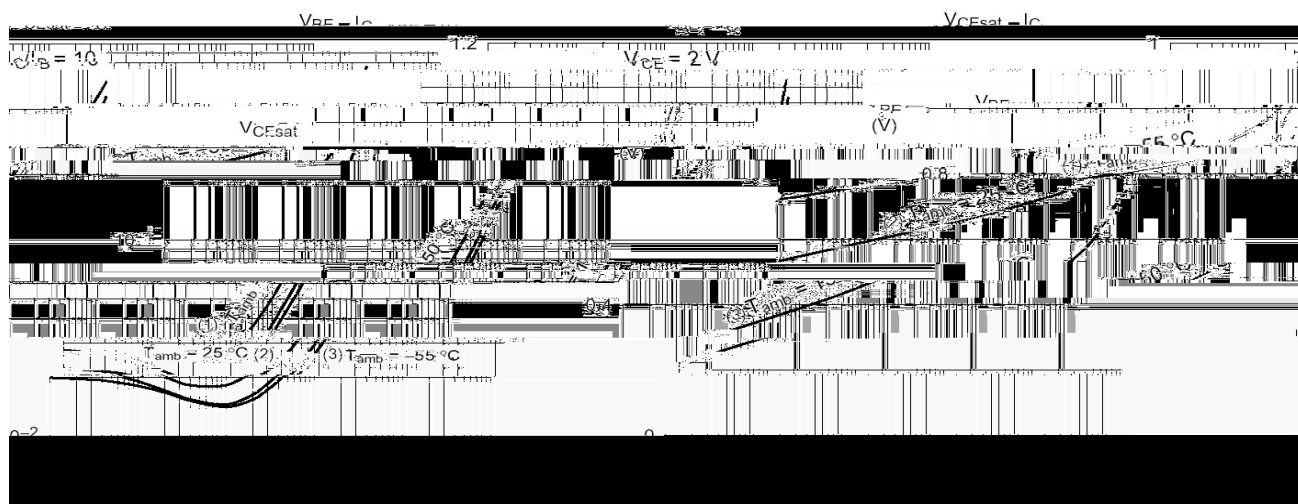
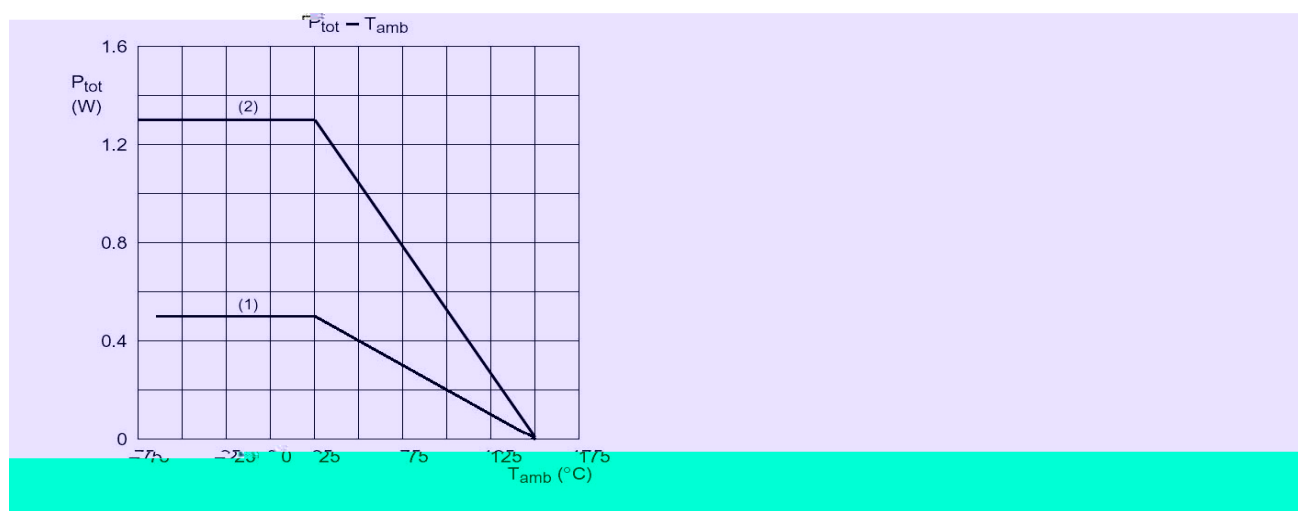
PIN1 $\times$ Base PIN 2 $\times$ Collector PIN 3 $\times$ Emitter

/ Marking

$h_{FE(1)}$ Classifications	10	16
$h_{FE(1)}$ Range	63 160	100 250
Marking	HBC $\frac{*}{*}$	HBD $\frac{*}{*}$

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	45	V
Collector to Emitter Voltage	V_{CEO}	45	V
Emitter to Base Voltage	V_{EBO}	5	V
Collector Current-Continuous	I_C	1.0	A
Peak Collector Current	I_{CM}	1.5	A
Peak Base Current	I_{BM}	0.2	A
Collector Power Dissipation	P		

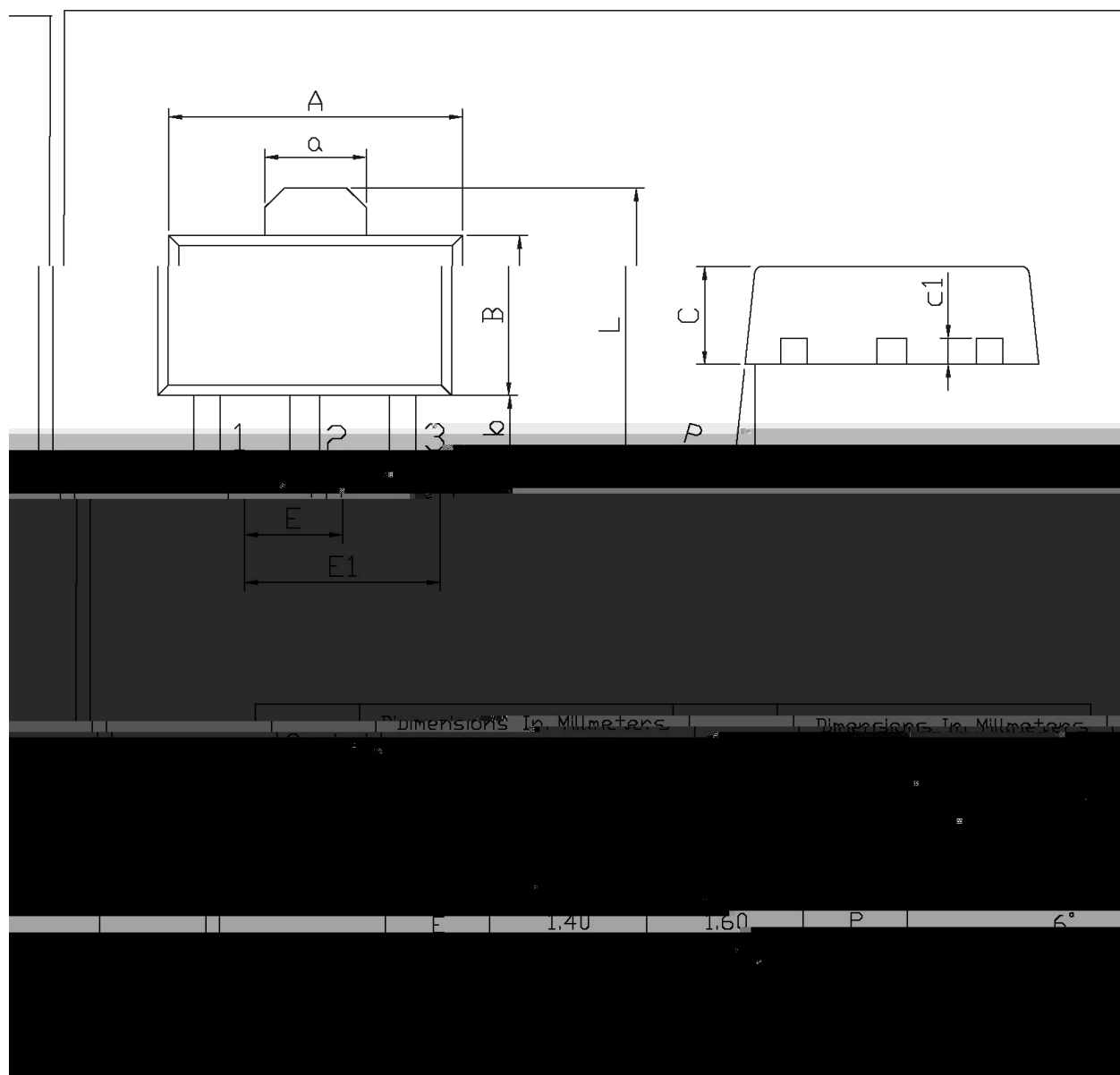
/ Electrical Characteristic Curve



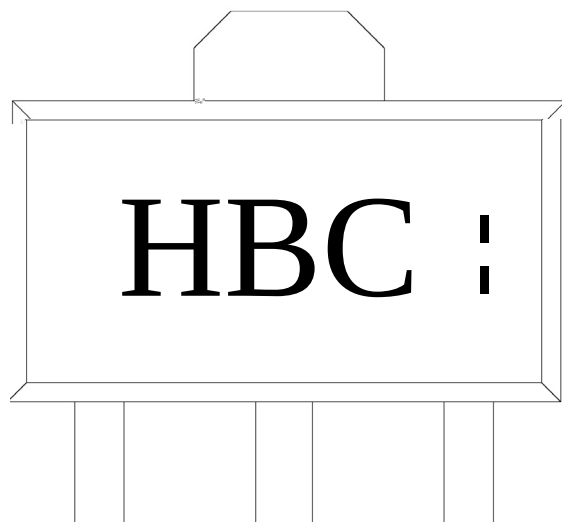
/ Package Dimensions



单位: mm



/ Marking Instructions



б " X

HX Խ 3 ^N Դ

BCX Խ 3 ^N Դ

--X Խ 1 Բ ի ^N Դ 1 Գ 1 Բ ի ^N Ս Դ

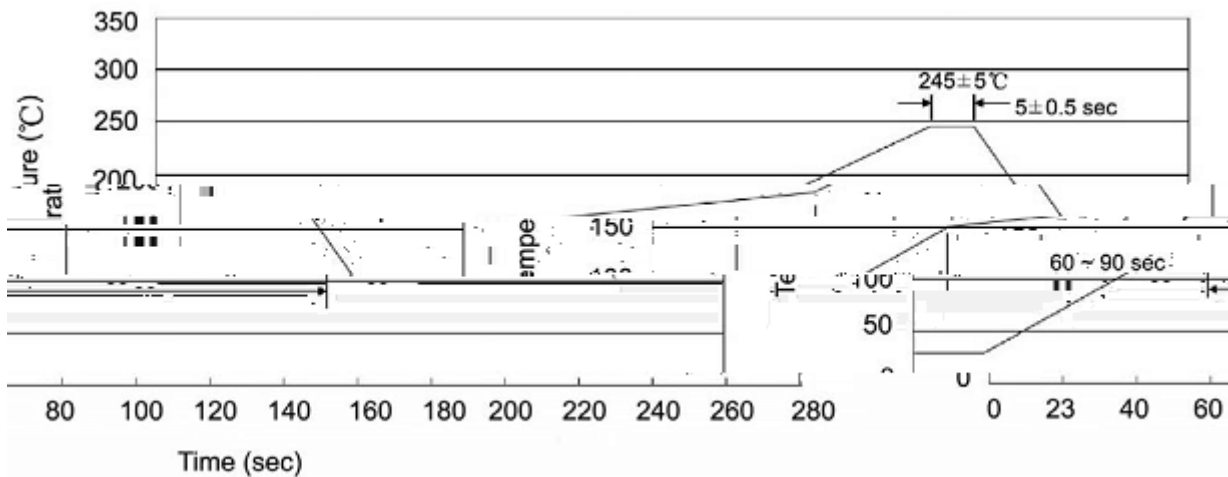
Note:

H: Company Code.

BC: Product Type.

** : Lot No. Code, code change with Lot No.

() /



C. X

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.

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/ Resistance to Soldering Heat Test Conditions

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

/ Packaging SPEC.

□ / REEL

Package Type	Units					Dimension (unit mm ³)		

/ Notices