

DTA123JKA

Rev.A Apr.-2022

DATA SHEET

描述 / Descriptions

SOT-23 塑封封装硅 PNP 数字三极管。Silicon PNP Digital transistor in a SOT-23 Plastic Package.

特征 / Features

内装偏置电阻，简化线路设计，减少元件和制造流程，无卤产品。

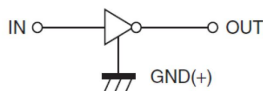
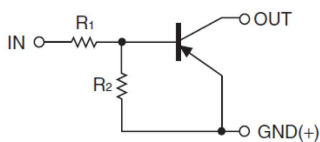
With built-in bias resistors, simplify circuit design, reduce a quantity of parts and manufacturing process, HF Product.

用途 / Applications

用于开关、界面电路以及驱动电路中。

Switching applications, interface circuit and driver circuit applications.

内部等效电路 / Equivalent Circuit



引脚排列 / Pinning



PIN 1 : IN

PIN 2 : GND

PIN 3 : OUT

印章代码 / Marking

Marking	HE32
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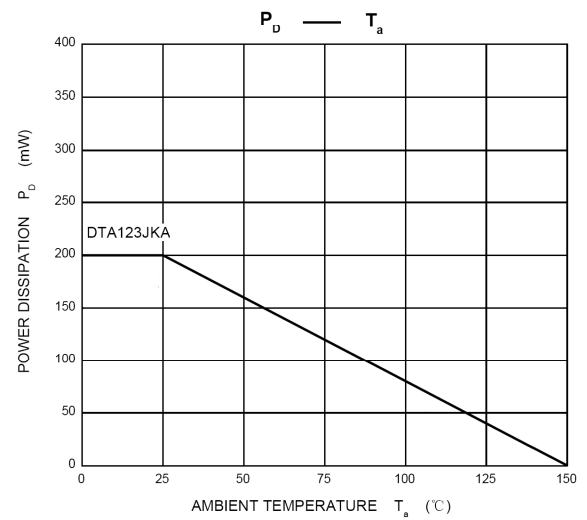
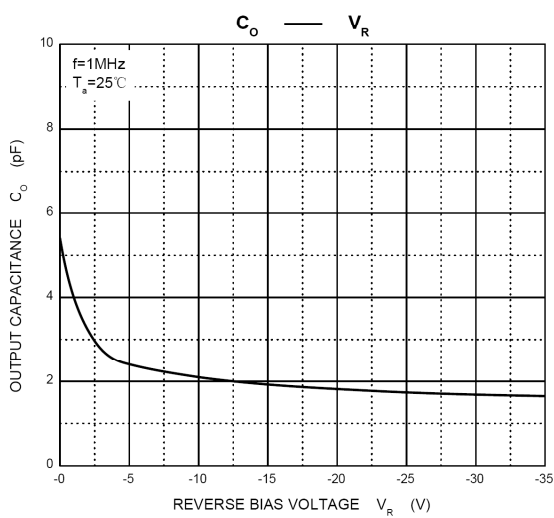
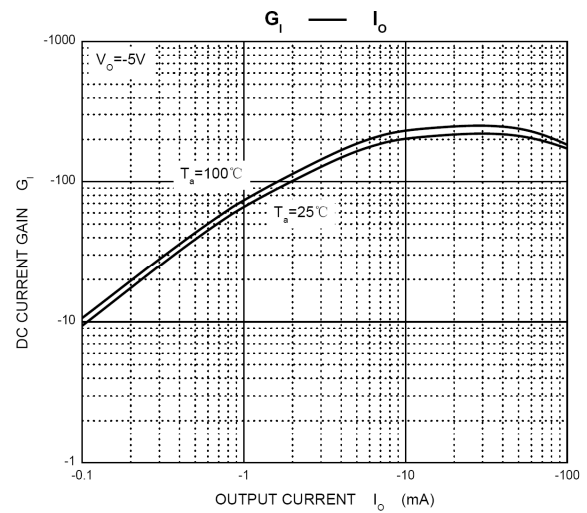
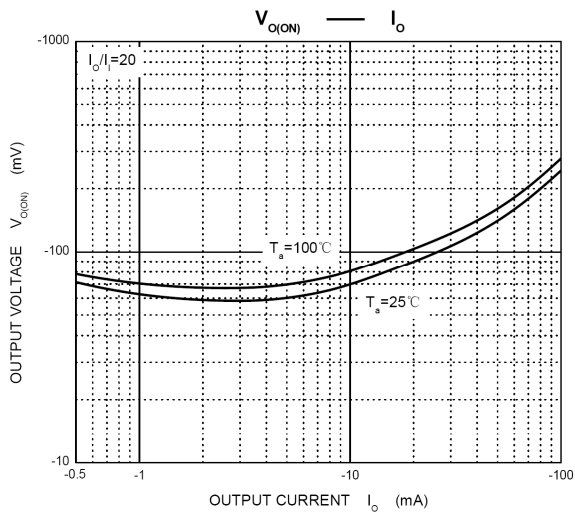
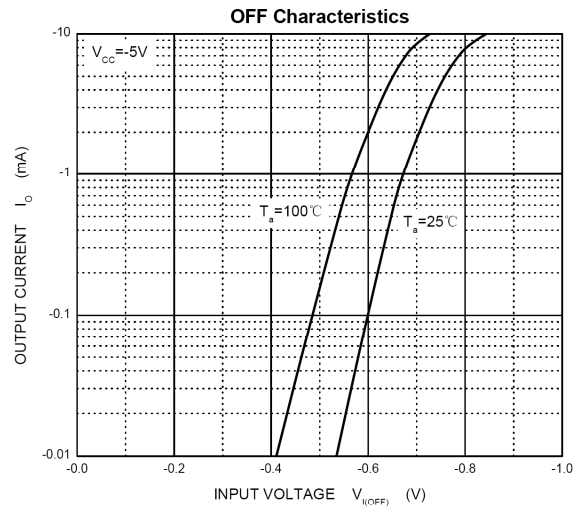
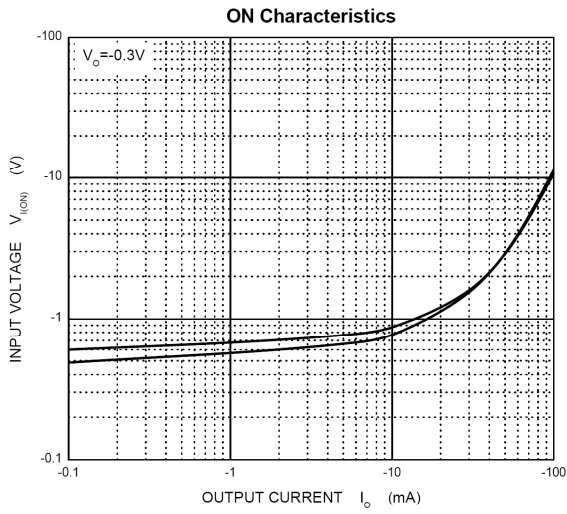
极限参数 / Absolute Maximum Ratings(Ta=25°C)

参数 Parameter	符号 Symbol	数值 Rating	单位 Unit
Supply Voltage	V_{CC}	-50	V
Input Voltage	V_{IN}	5	V
		-12	V
Output Current	I_o	-100	mA
Power Dissipation	P_D	200	mW
Junction Temperature	T_j	-55~150	°C
Storage Temperature Range	T_{stg}	-55~150	°C

电性能参数 / Electrical Characteristics(Ta=25°C)

参数 Parameter	符号 Symbol	测试条件 Test Conditions	最小值 Min	典型值 Typ	最大值 Max	单位 Unit
Input Voltage	$V_{I(off)}$	$V_{CC}=-5.0V$ $I_o=-100\mu A$	-0.5			V
Input Voltage	$V_{I(on)}$	$V_o=-0.3V$ $I_o=-5.0mA$			-1.1	V
Output Voltage	$V_{O(on)}$	$I_o=-5.0mA$ $I_i=-0.25mA$		-0.1	-0.3	V
Input Current	I_i	$V_i=-5.0V$			-3.6	mA
Output Cut-off Current	$I_{O(off)}$	$V_{CC}=-50V$ $V_i=0V$			-0.5	μA
DC Current Gain	G_I	$V_o=-5.0V$ $I_o=-10mA$	80			
Resistance1	R_1		1.54	2.2	2.86	K Ω
Resistance Ratio	R_2/R_1		17	21	26	
Transition Frequency	f_T	$V_o=-10V$ $I_o=-5.0mA$ $f=100MHz$		250		MHz

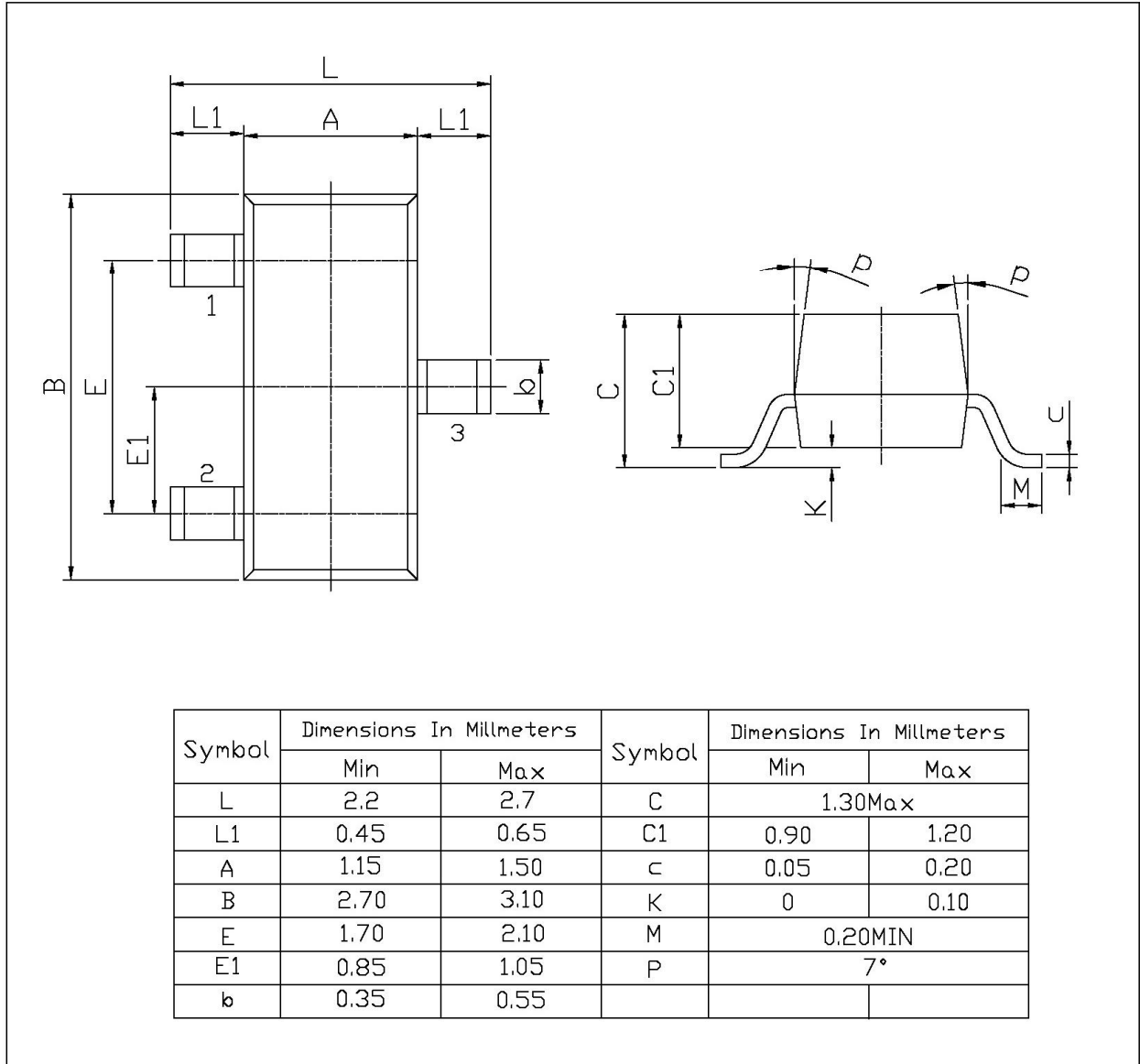
电参数曲线图 / Electrical Characteristic Curve



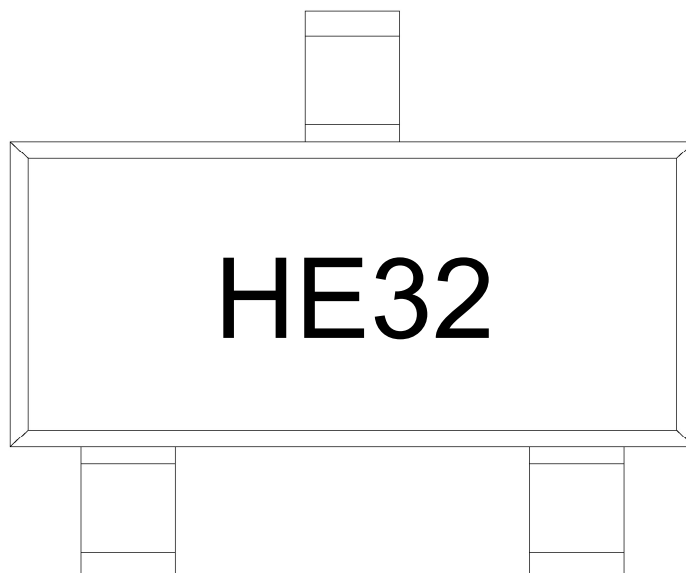
外形尺寸图 / Package Dimensions

SOT-23

单位: mm



印章说明 / Marking Instructions



说明：

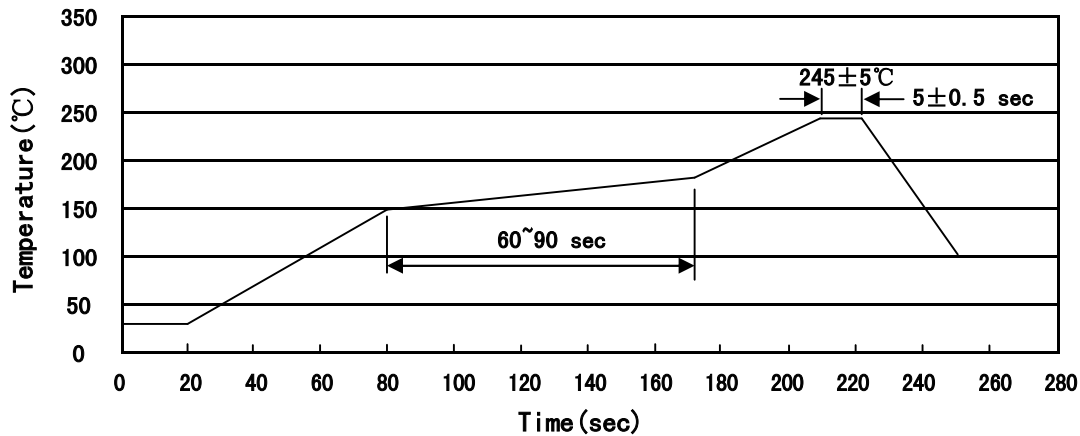
H： 为公司代码

E32： 为型号代码

Note:

H： Company Code

E32： Product Type

回流焊温度曲线图(无铅) / Temperature Profile for IR Reflow Soldering(Pb-Free)


说明：

- 1、预热温度 150~180°C，时间 60~90sec;
- 2、峰值温度 245±5°C，时间持续为 5±0.5sec;
- 3、焊接制程冷却速度为 2~10°C/sec.

Note:

- 1.Preheating:150~180°C, Time:60~90sec.
- 2.Peak Temp.:245±5°C, Duration:5±0.5sec.
3. Cooling Speed: 2~10°C/sec.

耐焊接热试验条件 / Resistance to Soldering Heat Test Conditions

温度：260±5°C

时间：10±1 sec.

Temp.:260±5°C

Time:10±1 sec

包装规格 / Packaging SPEC.

卷盘包装 / 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
SOT-23	3,000	10	30,000	6	180,000	7" ×8	180×120×180	390×385×205

使用说明 / Notices