

# DTC144EKA

Rev.H Apr.-2025

## / Descriptions

SOT-23

NPN

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

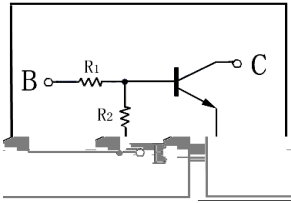
## / Features

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

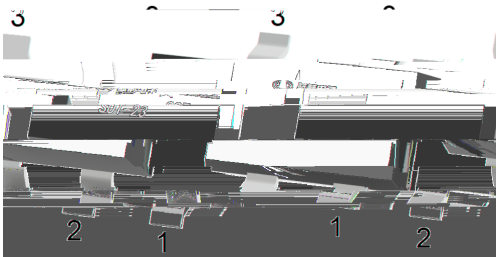
## / Applications

Switching, inverter circuit, interface circuit and driver circuit applications.

## / Equivalent Circuit



## / Pinning



PIN 1 Base

PIN 2 Emitter

PIN 3 Collector

## / hFE Classifications & Marking

Marking	H26
---------	-----

# DTC144EKA

Rev.H Apr.-2025

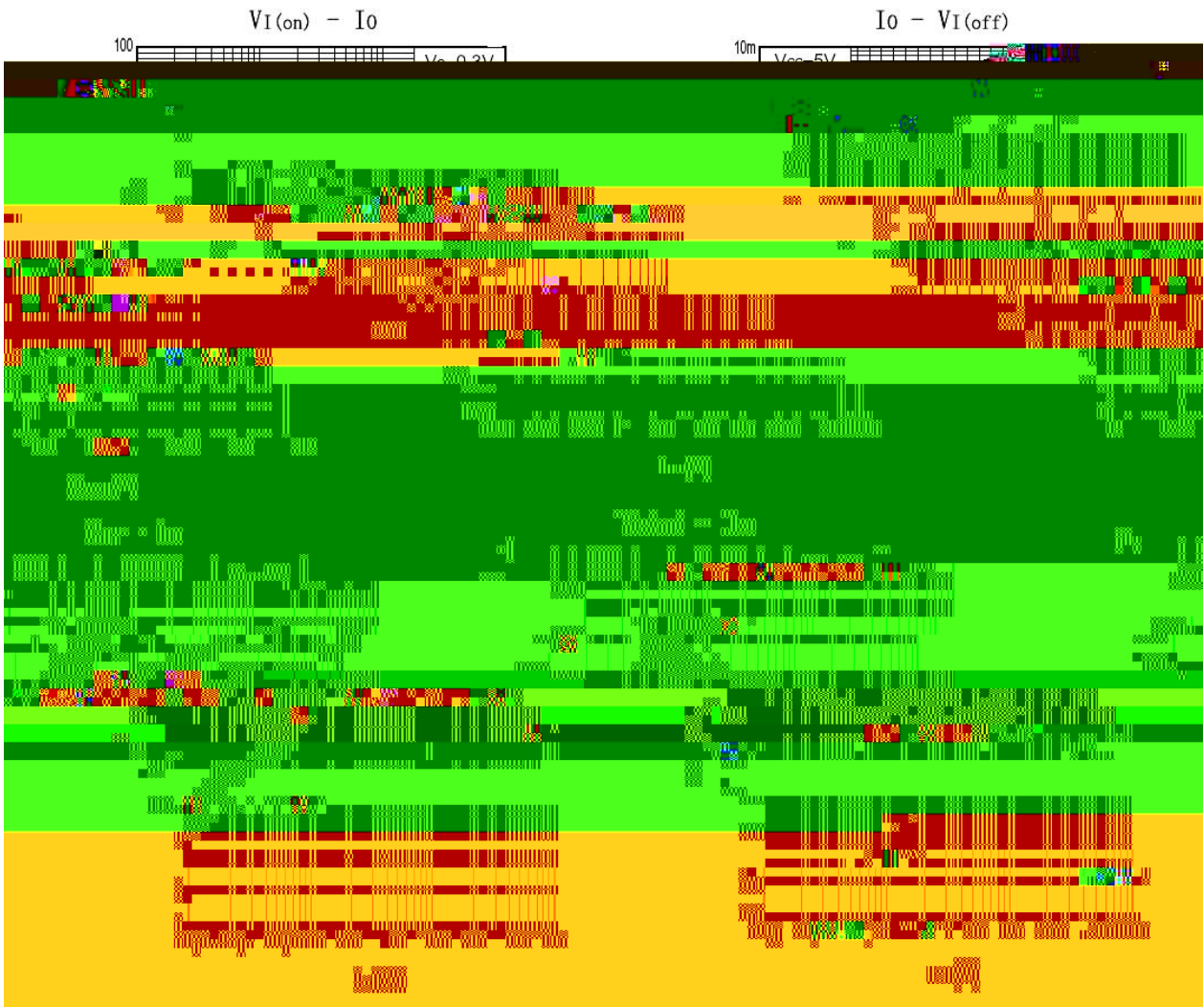


DATA SHEET

Parameter	Symbol	Rating	Unit
Output Voltage	$V_{CC}$	50	V
Input Voltage	$V_{IN}$	40	V
		-10	V
Output Current	$I_O$	30	mA
Peak Collector Current	$I_{CM}$	100	mA
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
Input Voltage	$V_{I(off)}$	$V_{CC}=5.0V$ $I_O=100\mu A$	0.5			V
	$V_{I(on)}$	$V_O=0.3V$ $I_O=2mA$			3	V
Output Voltage	$V_{O(on)}$	$I_O=10mA$ $I_I=0.5mA$			0.3	V
Input Current	$I_I$	$V_I=5.0V$			0.18	mA

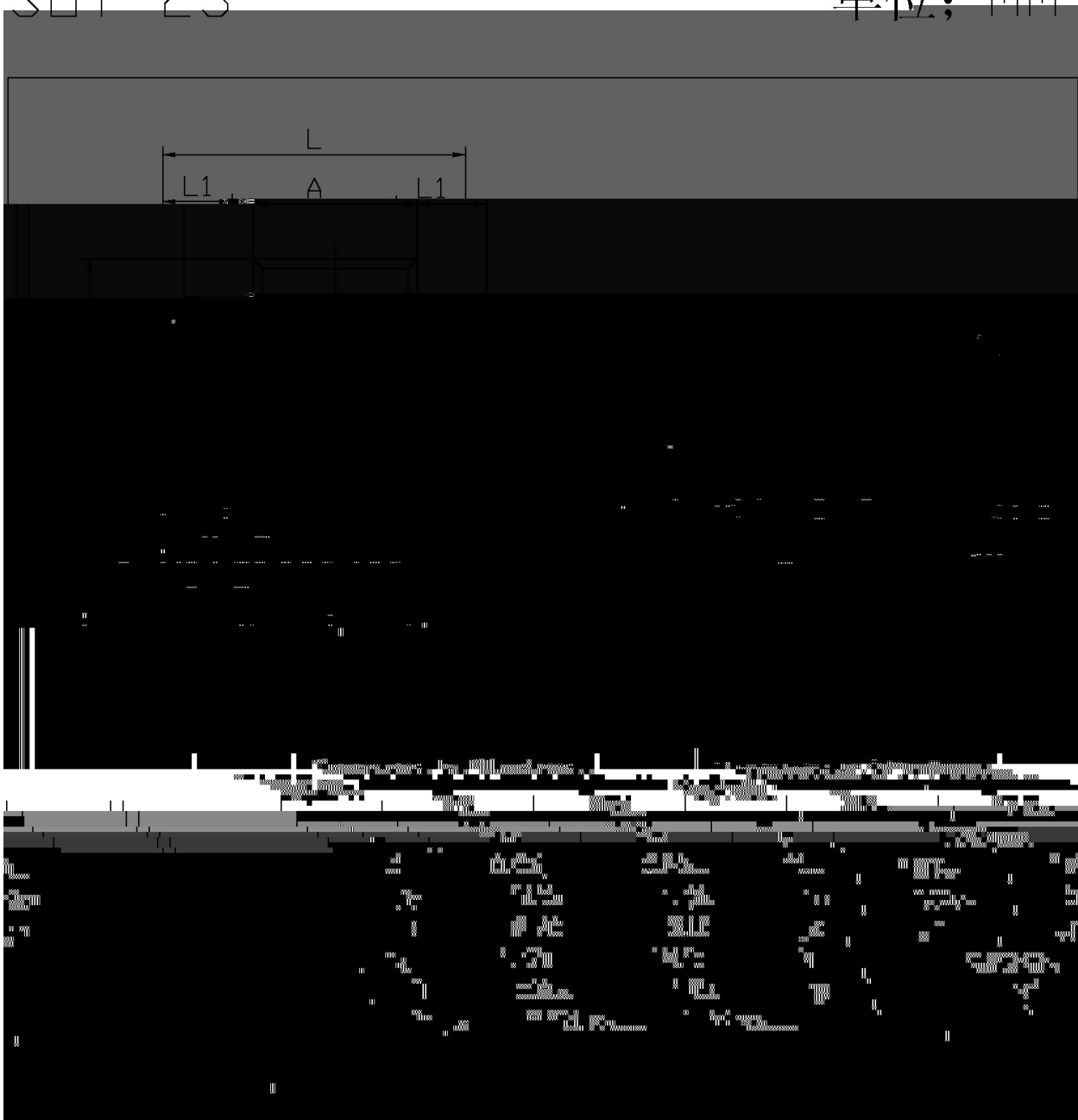
/ Electrical Characteristic Curve



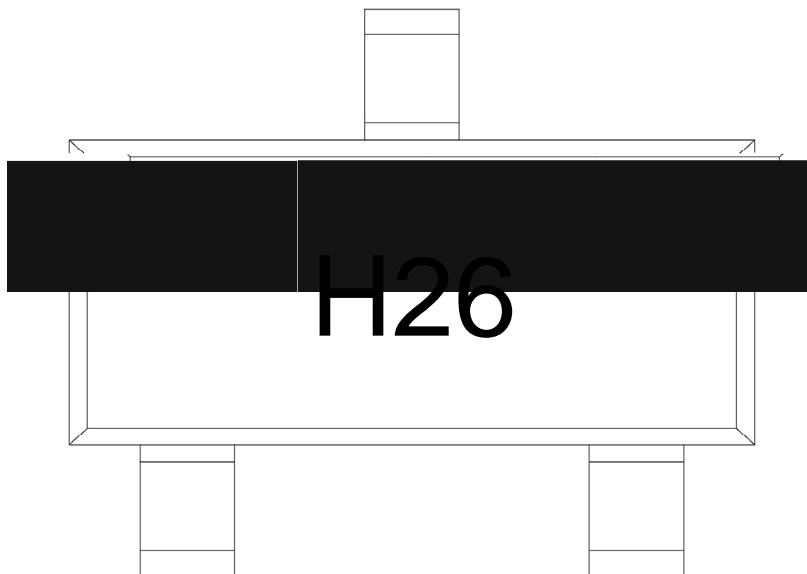
/ Package Dimensions

SOT-23

单位: mm



/ Marking Instructions



H

26

Note:

H            Company Code

26           Product Type Code

( ) /


**Note:**

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

**/ Resistance to Soldering Heat Test Conditions**

605±5 (/ -5.7(Packagling)24286(SPEC.( )J/T7 1 Tf03.4485 32.3713 TD.0004 Tc-35.65309:6025130