

# DTC114EKA

Rev.1 Aug.-2025

## / Descriptions

JF K\$) \* E GE Silicon NPN Digital transistor in a SOT-23 Plastic Package.

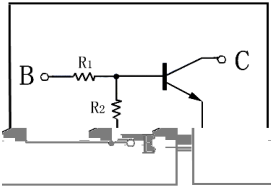
## / Features

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

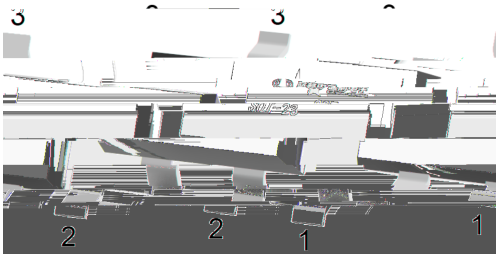
## / Applications

Switching applications, interface circuit and driver circuit applications.

## / Equivalent Circuit



## / Pinning



PIN 1 Base PIN 2 Emitter PIN 3 Collector

## / h<sub>FE</sub> Classifications & Marking

Marking	H24
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Rev. I Aug.-2025



DATA SHEET

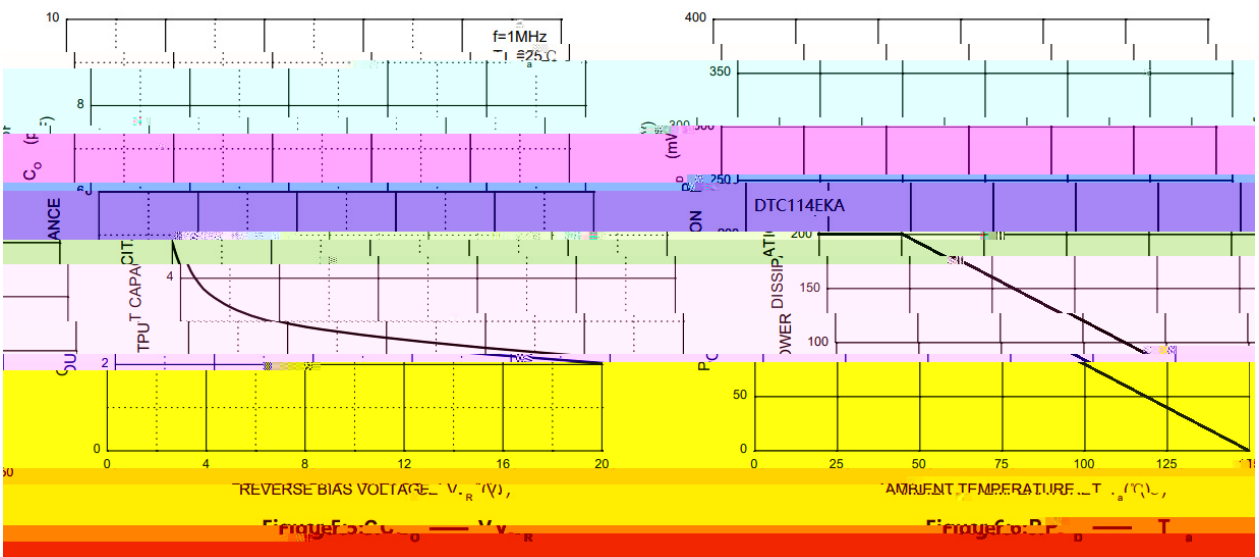
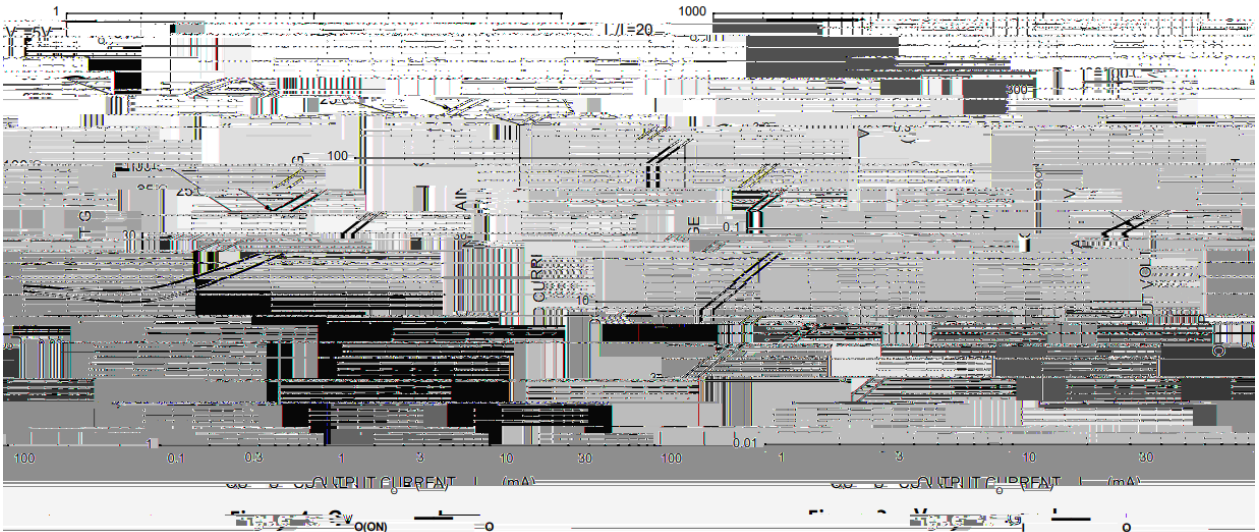
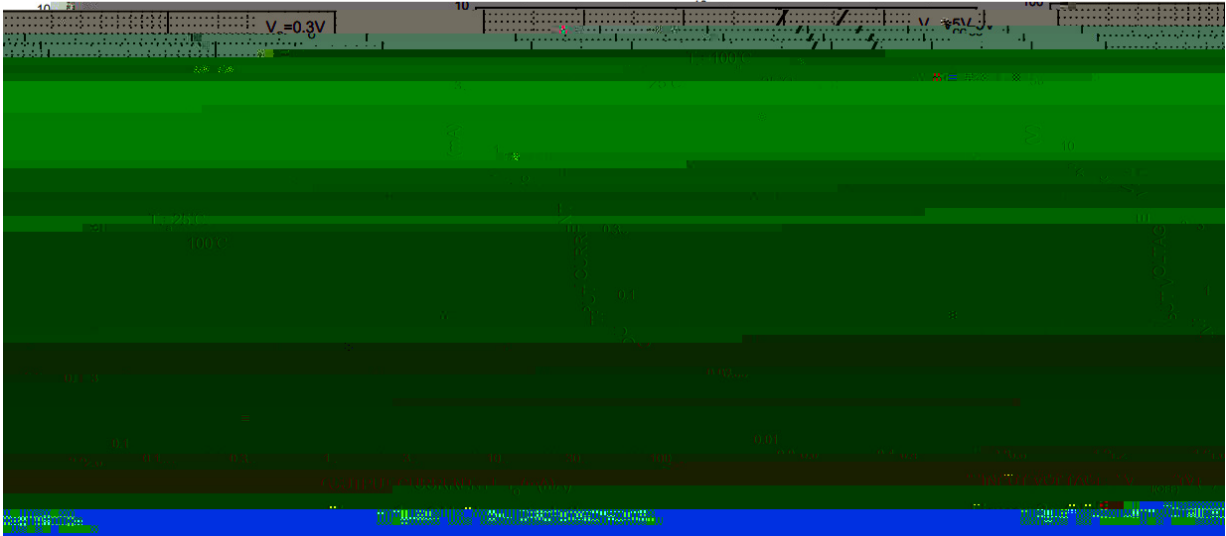
Parameter	Symbol	Rating	Unit
Supply Voltage	$V_{CC}$	50	V
Input Voltage	$V_{IN}$	-10	V
		40	V
Output Current	$I_{CM}$	100	mA
	$I_O$	50	mA
Power Dissipation	$P_D$	200	mW
Junction Temperature	$T_j$	150	
Storage Temperature Range	$T_{stg}$	-55 150	

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Input Voltage	$V_{I(off)}$	$V_{CC}=5.0V$ $I_O=100\text{ mA}$	0.5			V
Input Voltage	$V_{I(on)}$	$V_O=0.3V$ $I_O=10mA$			3	V
Output Voltage	$V_{O(on)}$	$I_O=10mA$ $I_I=0.5mA$			0.3	V
Input Current	$I_I$	$V_I=5.0V$			0.88	mA

Output Cut-off Current

$I_{CO}$  0.05mA (at  $V_I=5.0V$ ,  $V_O=0.3V$ ,  $I_O=10mA$ )

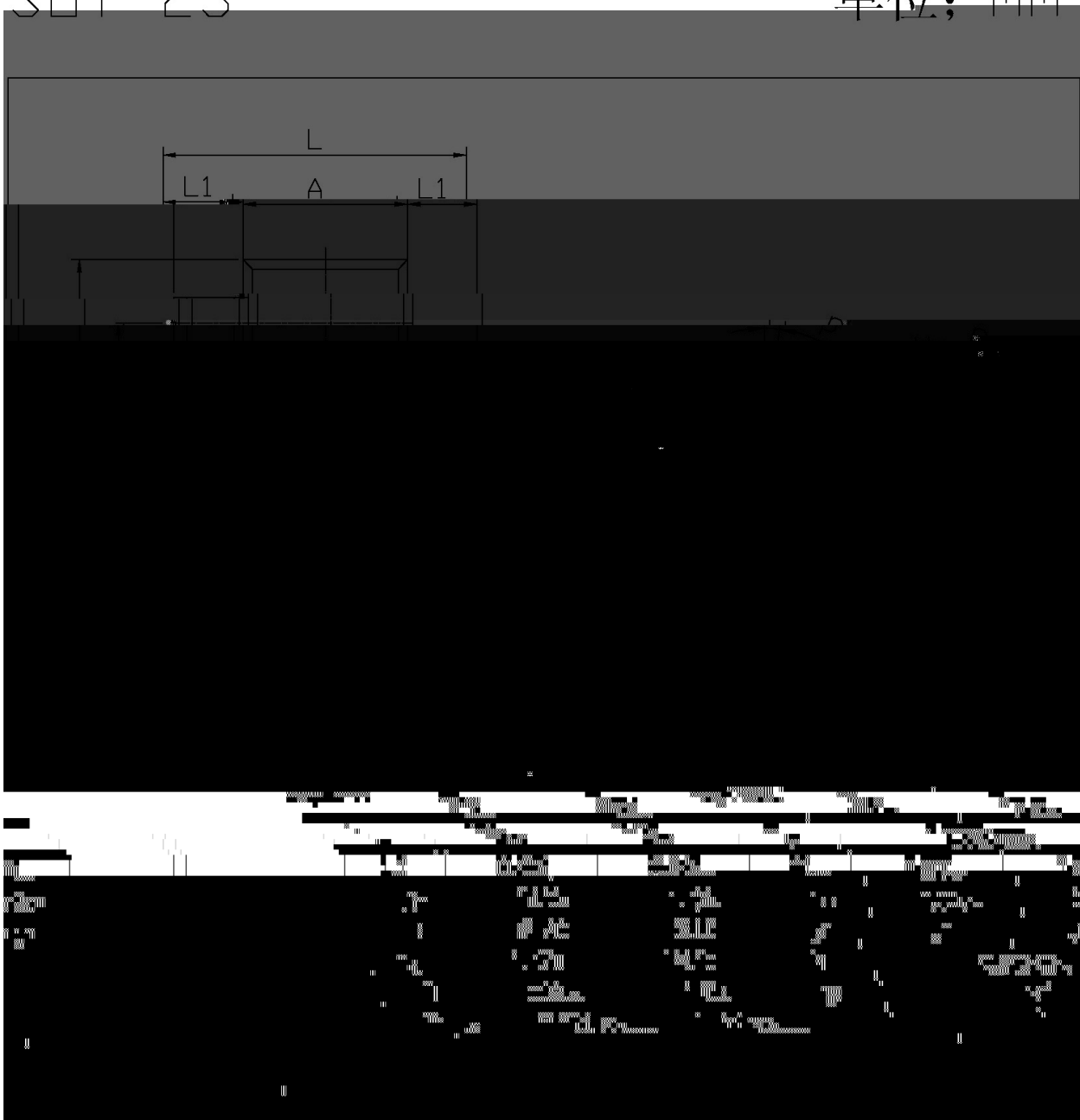
/ Electrical Characteristic Curve



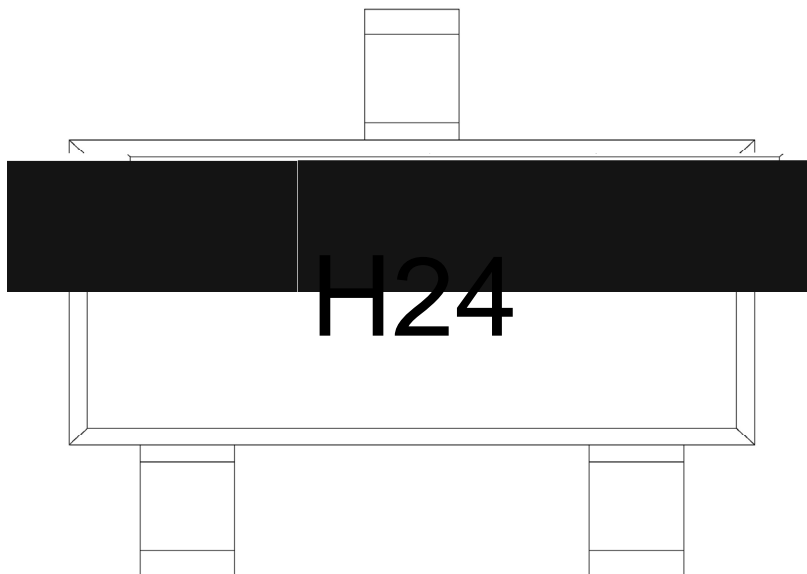
/ Package Dimensions

SOT-23

单位: mm



/ Marking Instructions



?     Company Code  
) +     Product Type Code  
Note:  
?     Company Code  
24     Product Type Code

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


Note:

1

150 180

60 90sec;

1.Preheating: 10.5 127.3(1.Pr.Preheatin.5 1089g6 0 TD