DTA144EKA

Rev.G May.-2019

DATA SHEET

/ Descriptions

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

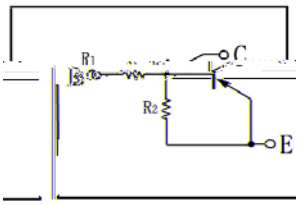
/ Features

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

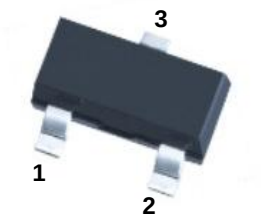
/ Applications

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

/ Equivalent Circuit



/ Pinning



PIN 1 Base PIN 2 Emitter PIN 3 Collector

/ h_{FE} Classifications & Marking

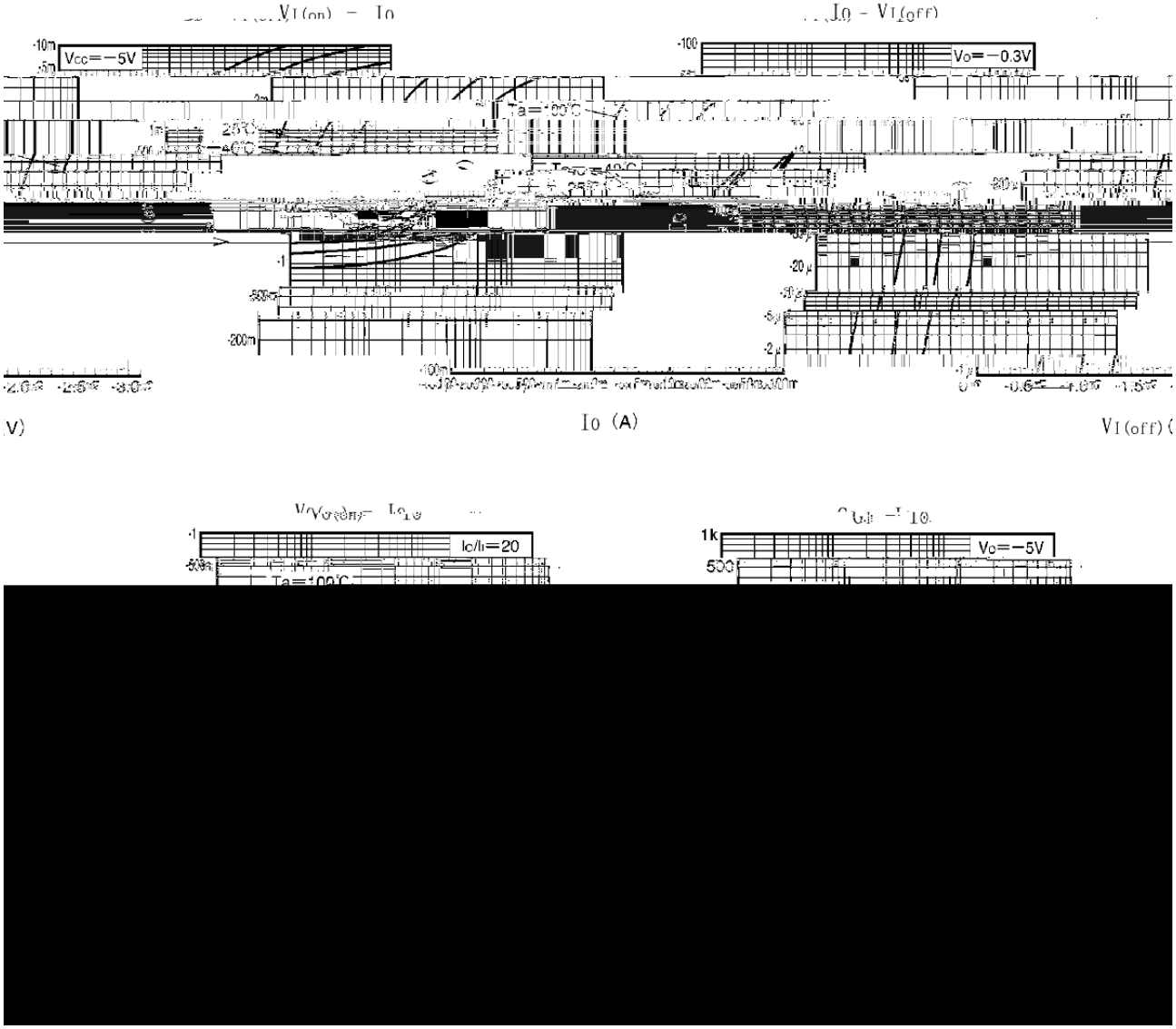
Marking	H16

Parameter	Symbol	Rating	Unit
Output Voltage	V_{CC}	-50	V
Input Voltage	V_{IN}	-40	V
		10	V
Output Current	$I_{C\ max}$	-100	mA
	I_O	-30	mA
Power Dissipation	P_d	200	mW
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55 150	

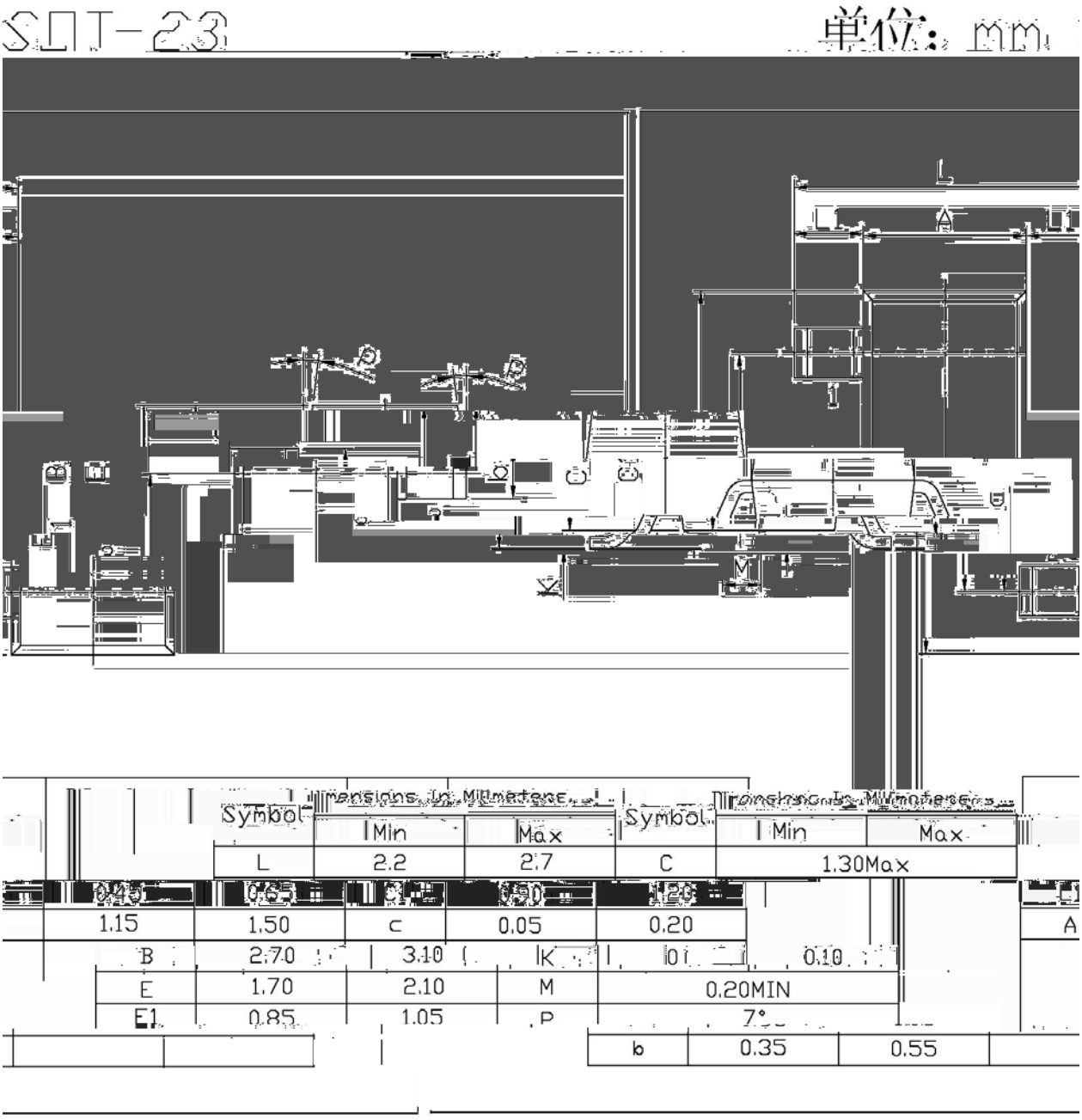
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Input Voltage	$V_{I(off)}$	V_{CC}=-5.0V I_O=-100μA			-0.5	V
	$V_{I(on)}$	V_O=-0.3V I_O=-2.0mA	-3.0			V

0403 Tm(Tc0 Outj10.58010.534 0.4024 0.0025 Tw[(V)]TJ 4.81 0 Tm 0.0233 Tc0.0025 Tw[(Outj10.000353.02 0 0 7.5mA)566)-100 1V6 0.4

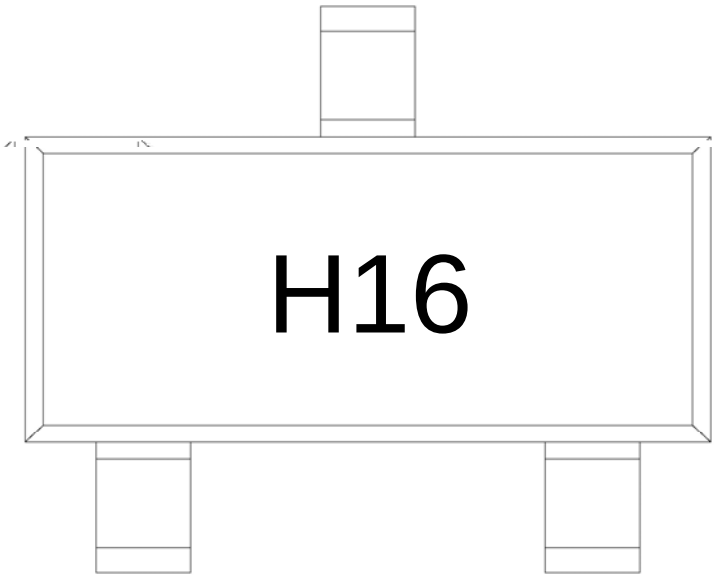
/ Electrical Characteristic Curve



/ Package Dimensions



/ Marking Instructions



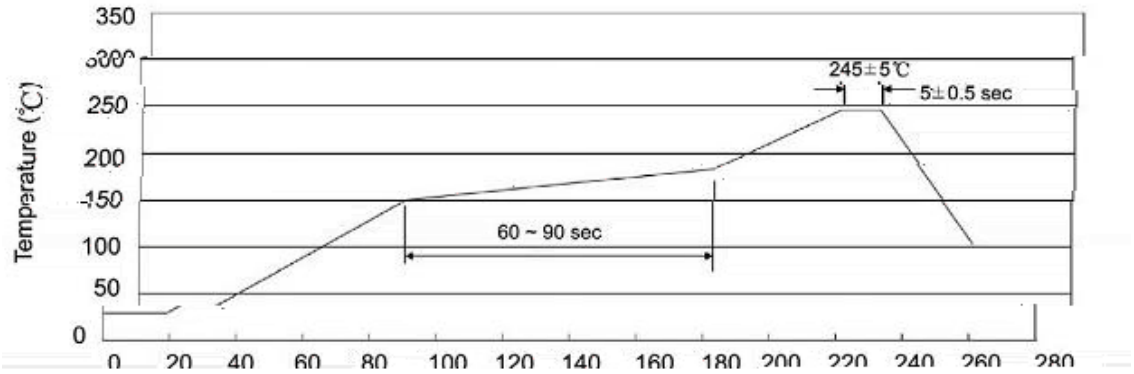
H

16

Note:

H	Company Code
16	Product Type Code

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



						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

260±5	10±1 sec.	Temp.:260±5	Time:10±1 sec

/ Packaging SPEC.

/ 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

/ Notices