

BRDTC123YKAQ

Rev 2025

5 Ø / Descriptions

95: .> // xJ. 4 6 4 â o 9 O R O I U T 4 6 4 * Z M C R Z X G T Y O Y Z U X R C T Y Z O 9 5 G I Q G M K

/“ / Features

~ x å k ç Ł k x 5 « ^ y ò - v i k ‘ ’ +) 7 ö Č ã U . ¯ } L k) í D } o

Wbpb

gdbb

fbpb

AE C-001 6

HF 0

— ÷ / Applications

9 ... o μ Ł Y C Ü Ł k Æ V æ } L o

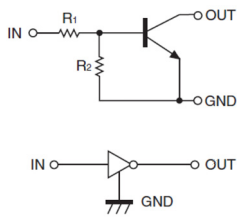
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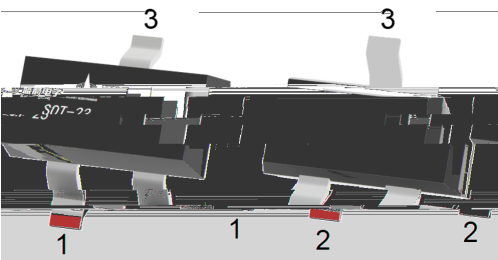
tpbb

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^ W] Ô / Equivalent Circuit



Û æ / Pinning



P1 y IN P2 y GND P3 y Ø

Z Ü B , M V / hFE Classifications & Marking

g	Q2
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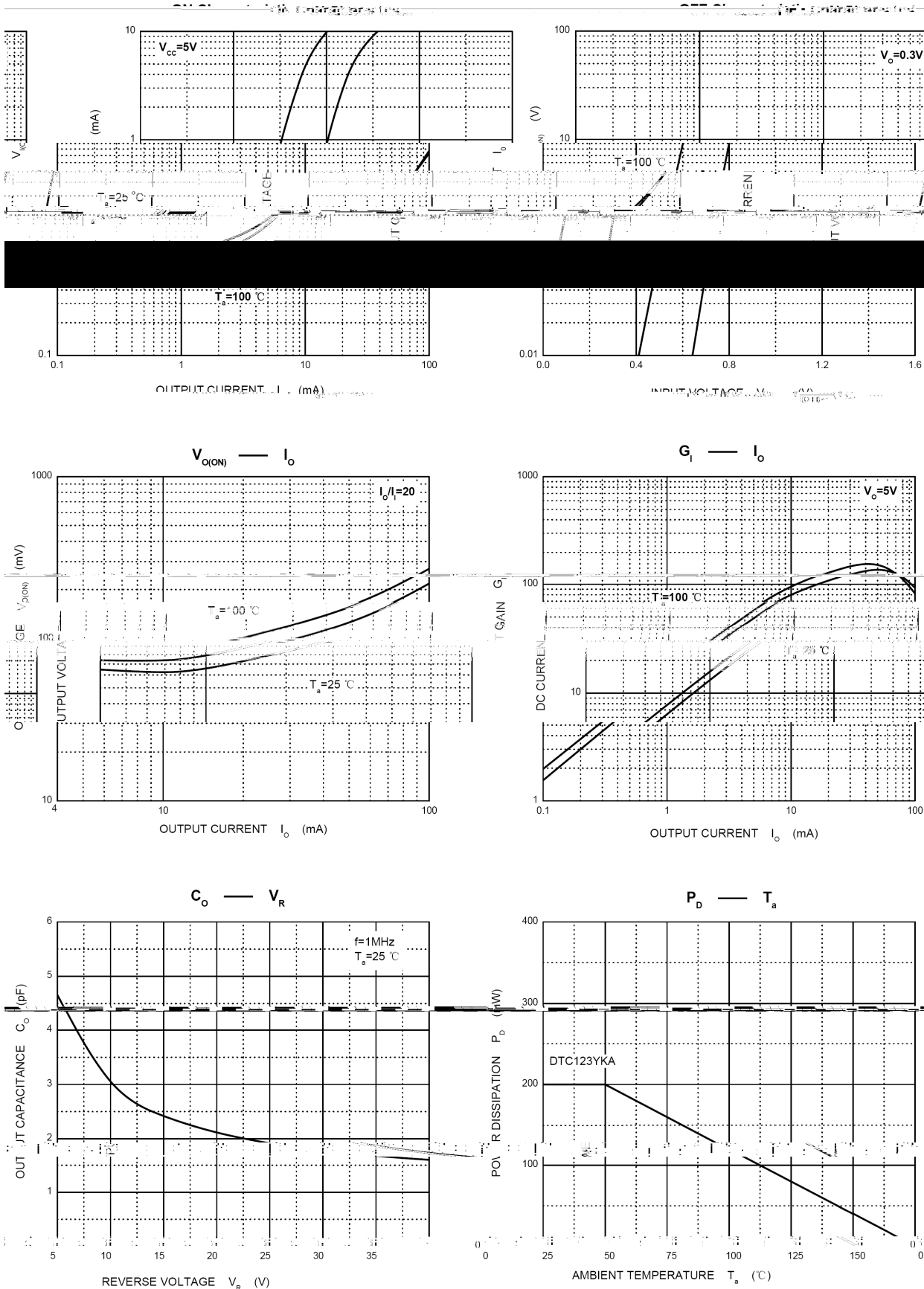
1. Absolute Maximum Ratings(Ta=25 ;)

Parameter	Symbol	Value	Unit
Supply Voltage	V _{CC}	50	V
Input Voltage	V _{IN}	12	V
Input Voltage	V _{IN}	-5	V
Output Current	I _O	100	mA
Power Dissipation	P _D	200	mW
Junction Temperature	T _j	-55 ~ 150	°C
Storage Temperature	T _{stg}	-55 ~ 150	°C

2. Electrical Characteristics(Ta=25 ;)

Parameter	Symbol	Test Conditions	Typical Value	Min	Max	Unit
Input Voltage	V _I	V _{CC} =5.0V I _O =100 A	0.3			V
Input Voltage	V _I	V _O =0.3V I _O =20mA			3	V
Input Voltage	V _I	I _O =10mA I _I =0.5mA		0.1	0.3	V
Input Current	I _I	V _I =5.0V			3.8	mA
Output Current	I _O	V _{CC} =50V V _I =0V			0.5	A
DC Conversion Rate	G	V _O =5.0V I _O =10mA	33			
Resistance	R		1.54	2.2	2.86	K
Resistance	R		3.6	4.5	5.5	
Frequency	f	V _O =10V I _O =5.0mA f=100Hz		250		Hz

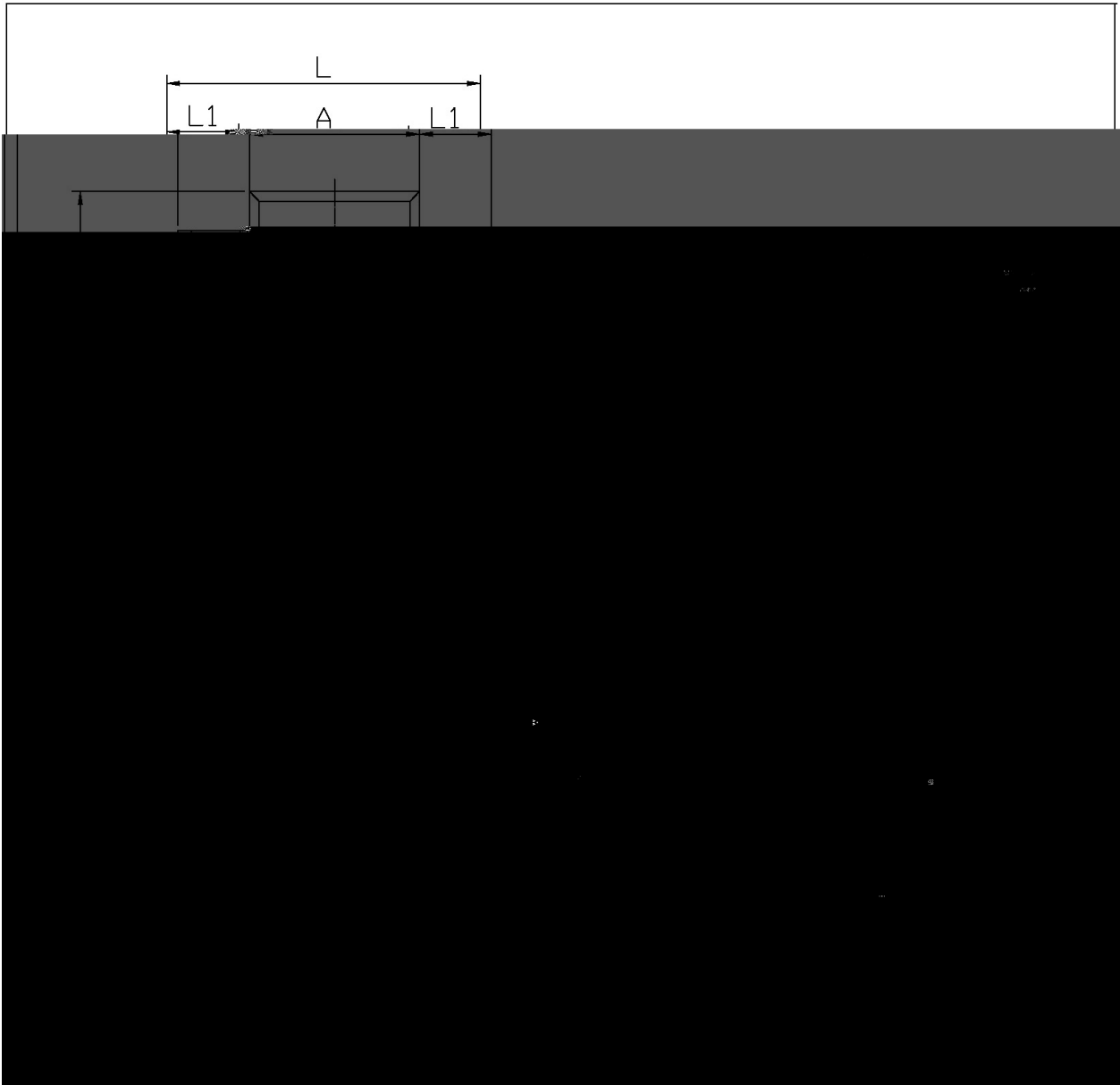
Electrical Characteristic Curve



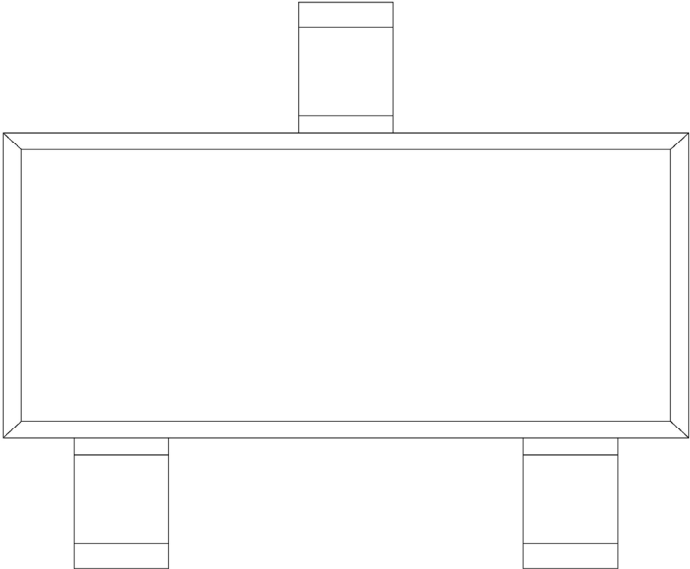
Ø =) ¢ / Package Dimensions

SOT-23

单位：mm

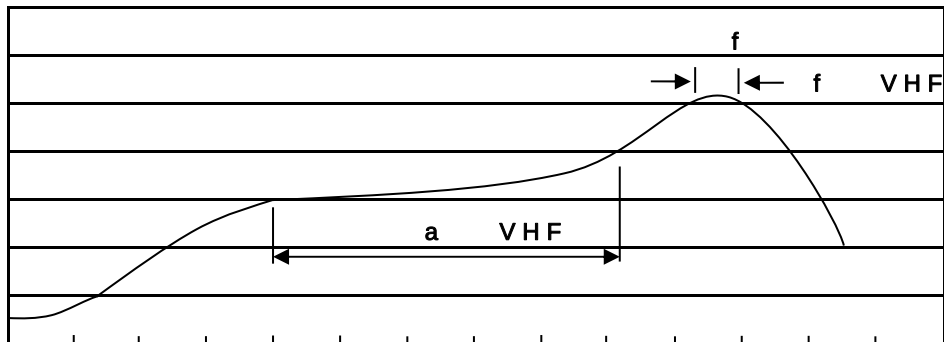


, M y



WD t ¢ (x/) / :KSVKXGZ[XK 6XULORK LUX /8 8KLRU] 9URJKXOTM 6

7HPSHUDWXUH



7 L P H V H F

“¢ y

El

1o ~ %	150 %	200 - k	60 %	120 s	1.5	150200	- ,	60120 s	
2o Q	255 r	5 - k	4 Ò	5 r	0.5 s	2.5	255	r5 - , D15	r0.5 s
3o D	N ò i	Ò ,	2 %	10 - /s		3.	C15	210	- /s

Resistance to Soldering Heat Test Conditions

y 260 r5 - y 10 r1 e p2605 m01 e

GPÆ / Packaging SPEC.

2 & x / RE

7>β E	b ;>β fH					Dm ;>β p . (t ~ m ³)		
	Units/Reel / >-	Reels/Inner Box >- /-	Units/Inner Box /-	Inner Boxes/Outer Box - /1ç	Units/Outer Box /1ç	Reel	Inner Box	Outer Boxç
63 3,000	10	30,000	6	180,000	7	T 8	180±20±80	390±85±205

—y / Notices