KTC3876

Rev.FApr.-2017

DATA SHEET

/ Descriptions

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

/ Features

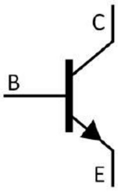
, KTA1505

Excellent hFE linearity, complementary pair with KTA1505.

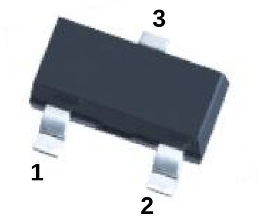
/ Applications

General amplifier and switching application.

/ Equivalent Circuit



/ Pinning



PIN 1 Base PIN 2 : Emitter PIN 3 Collector

/ h_{FE} Classifications & Marking

h_{FE} Classifications Symbol	O	Y	GR
h_{FE} Range	70 140	120 240	200 400
Marking	HWO	HWY	HWG

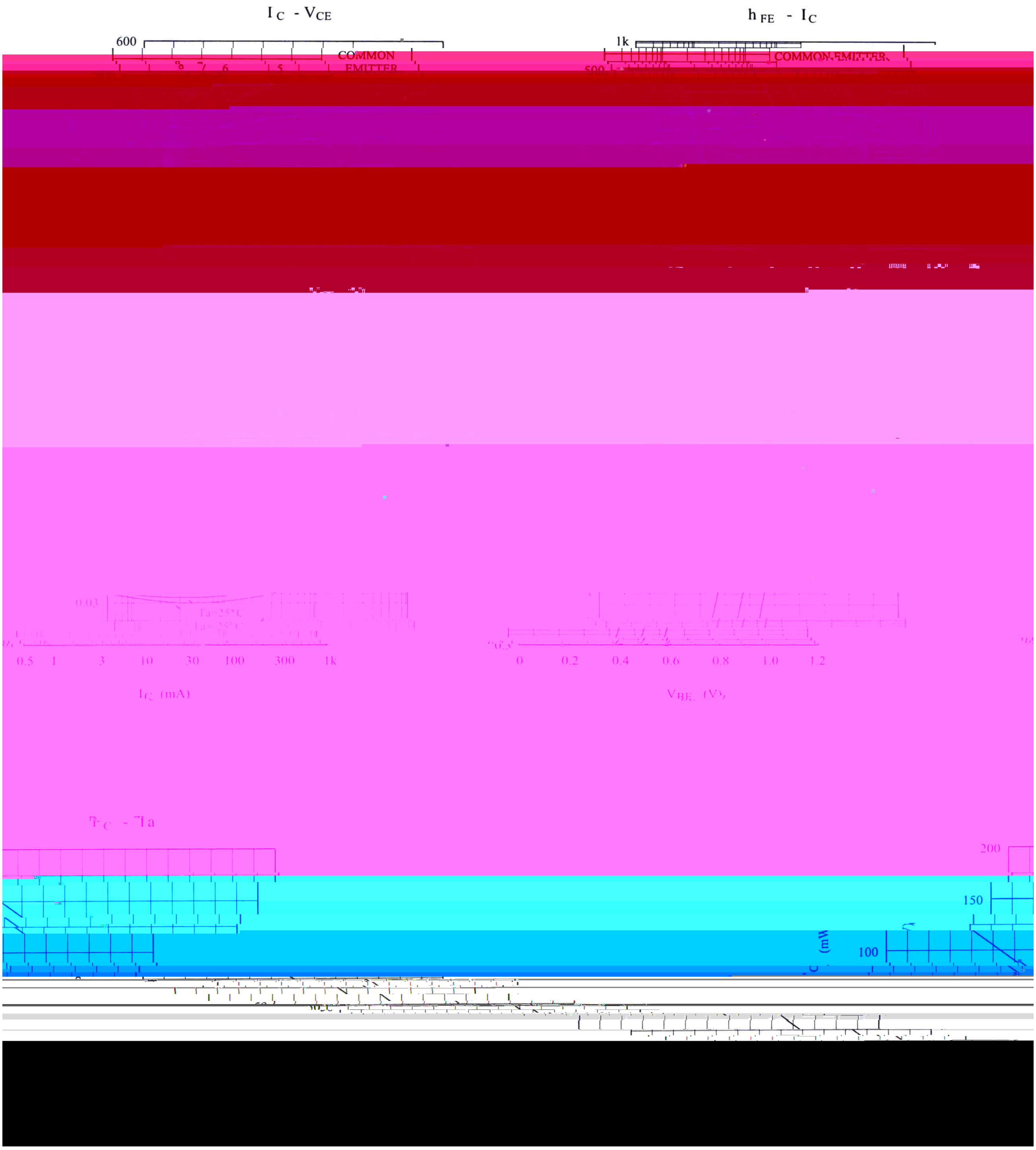
[redacted]

[redacted]	Symbol	Rating	Unit
[redacted]	V_{CBO}	35	V
[redacted]	V_{CEO}	30	V
[redacted]	V_{EBO}	5.0	V
[redacted]	I_C	500	mA
[redacted]	I_B	50	mA
[redacted]	P_C	150	mW
[redacted]	T_j	150	
[redacted]	T_{stg}	-55 150	

[redacted]

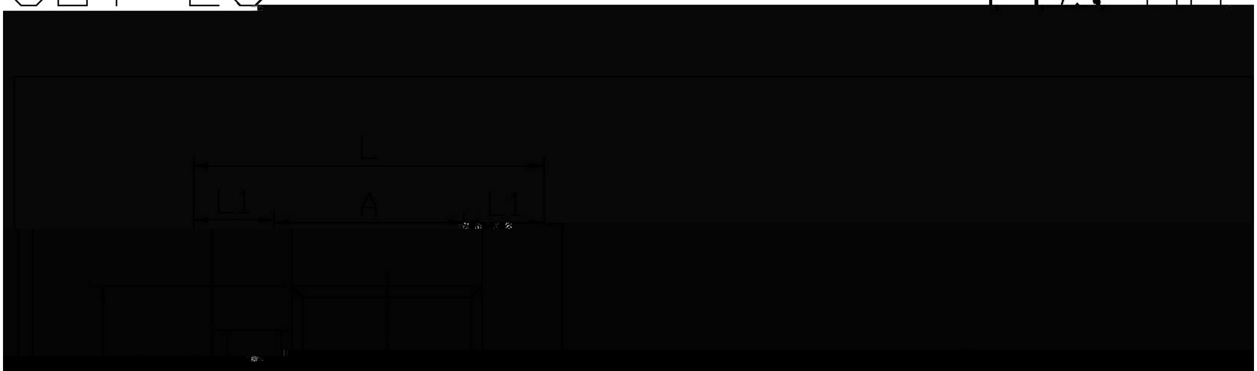
[redacted]	Conditions	Min	Typ	Max	Unit
[redacted]	I_E=0			0.1	μA
[redacted]	I_C=0			0.1	μA
[redacted]	I_C=100mA	70		400	
[redacted]	I_C=400mA	25			
[redacted]	I_B=10mA		0.1	0.25	V
[redacted]	I_C=100mA		0.8	1.0	V
[redacted]	I_C=20mA		300		MHz
[redacted]	f=1.0MHz		7.0		pF

/ Electrical Characteristic Curve

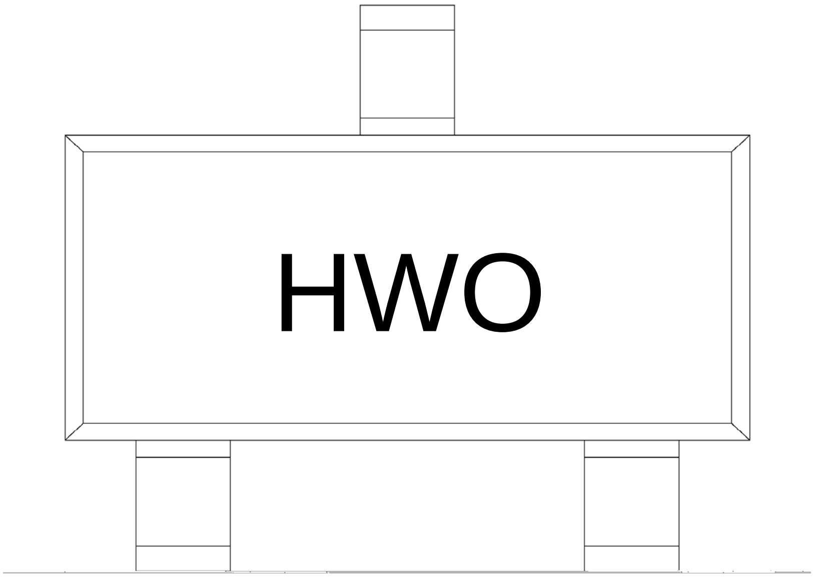


/ Package Dimensions

SOT-23 单位：mm



/ Marking Instructions



H

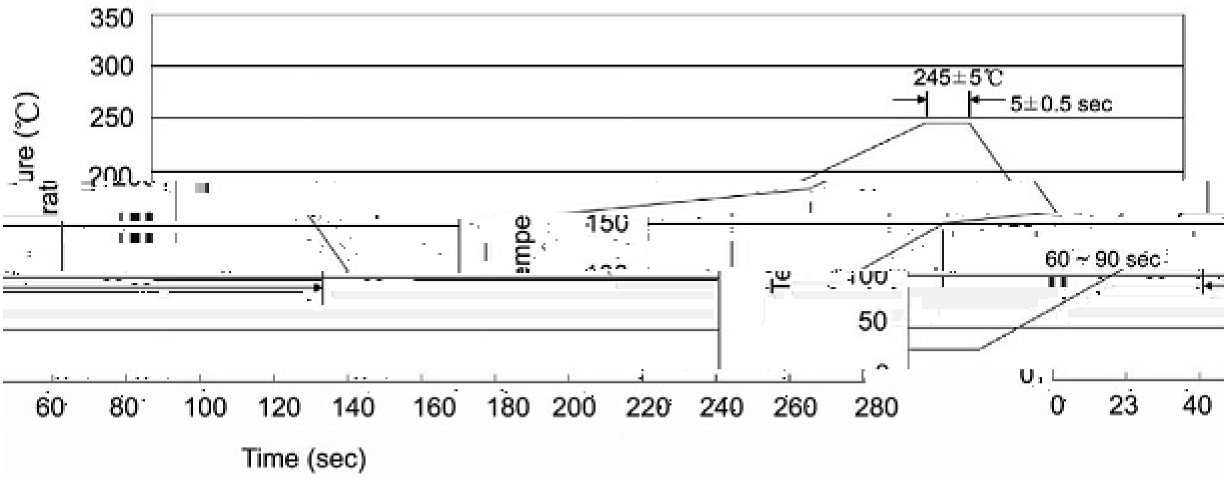
W

O h_{FE}

Note:

H	Company Code
W	Product Type
O	h_{FE} Classifications Symbol

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



Note:

1 25 150 60 90sec;	1.Preheating:25~150 , 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	Units					Dimension (unit mm^3)		
	Units/Reel /	Reels/Inner Box /	Units/Inner Box /	Inner Boxes/Outer Box /	Units/Outer Box /	Reel	Inner Box	Outer Box
SOT-23	3,000	10	30,000	6	180,000	7 ×8	180×120×180	390×385×205

/ Notices