

/ Descriptions

Silicon NPN transistor in a SOT-23 Plastic Package.

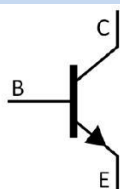
/ Features

Excellent h_{FE} 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

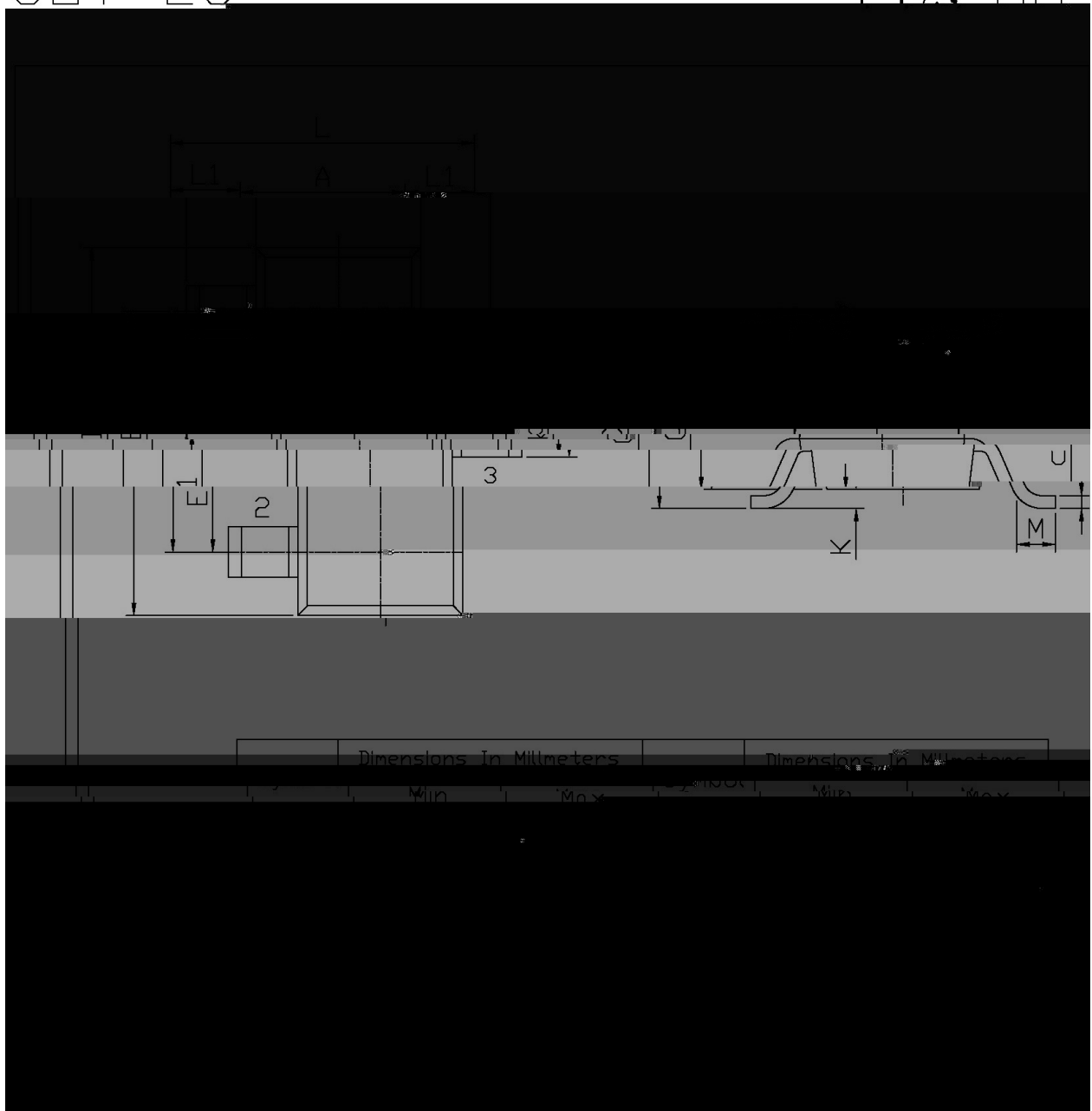
h_{FE} Classifications Symbol	O	Y	GR
h_{FE} Range	70 140	120 240	200 400
Marking	HWO	HWY	HWG

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	35	V
Collector to Emitter Voltage	V_{CEO}	30	V
Emitter to Base Voltage	V_{EBO}	5.0	V
Collector Current	I_C	500	mA
Base Current	I_B	50	mA
Collector Power Dissipation	P_C	150	mW
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55 150	

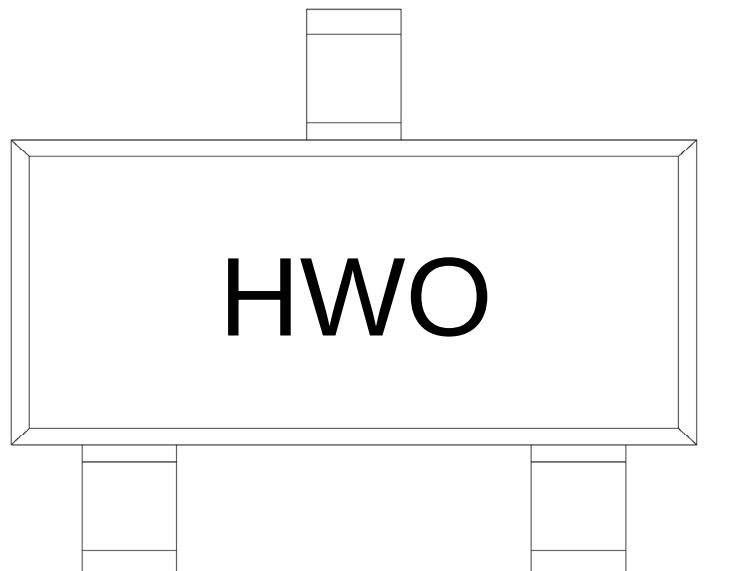
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector Cut-Off Current	I_{CBO}	$V_{CB}=35V$ $I_E=0$			0.1	μA
Emitter Cut-Off Current	I_{EBO}	$V_{EB}=5.0V$ $I_C=0$			0.1	μA
DC Current Gain	$h_{FE(1)}$	$V_{CE}=1.0V$ $I_C=100mA$	70		400	
	$h_{FE(2)}$	$V_{CE}=6.0V$ $I_C=400mA$	25			
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=100mA$ $I_B=10mA$		0.1	0.25	V
Base to Emitter Voltage	V_{BE}	$V_{CE}=1.0V$ $I_C=100mA$		0.8	1.0	V
Transition Frequency	f_T	$V_{CE}=6.0V$ $I_C=20mA$		300		MHz
Collector Output Capacitance	C_{ob}	$V_{CE}=6.0V$ $f=1.0MHz$		7.0		pF

SOT-23

单位:  



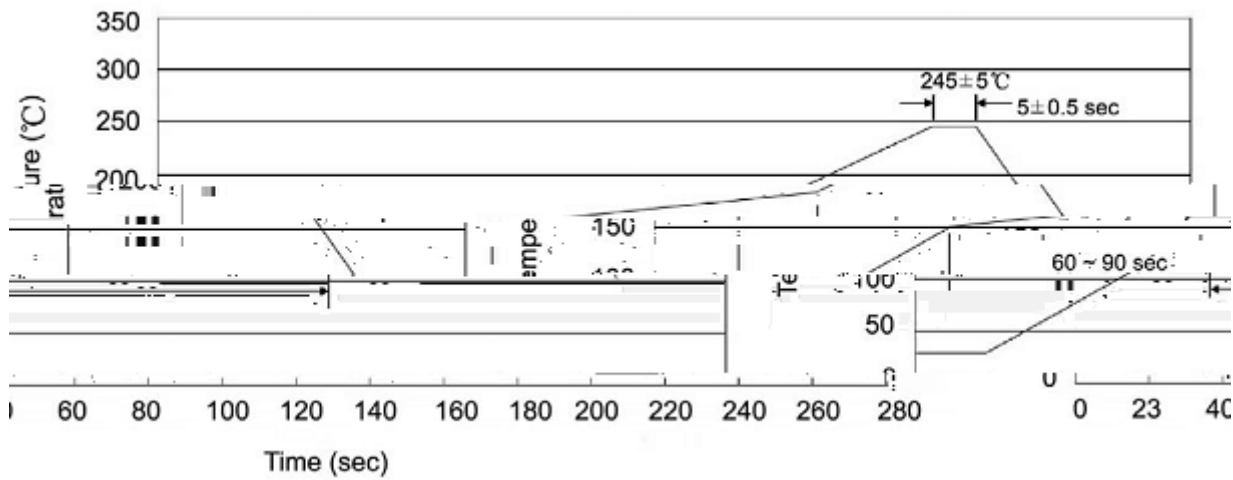
/ Marking Instructions



Note:

	Company Code
W	Product Type
	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)		

/ Notices