

**/ Descriptions**

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

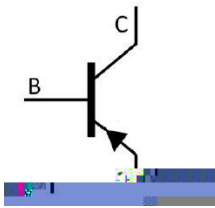
**/ Features**

Complementary pair with KTC3876.  
Excellent  $h_{FE}$  linearity, complementary pair with KTC3876.

**/ 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	HAZO	HAZY	HAZG

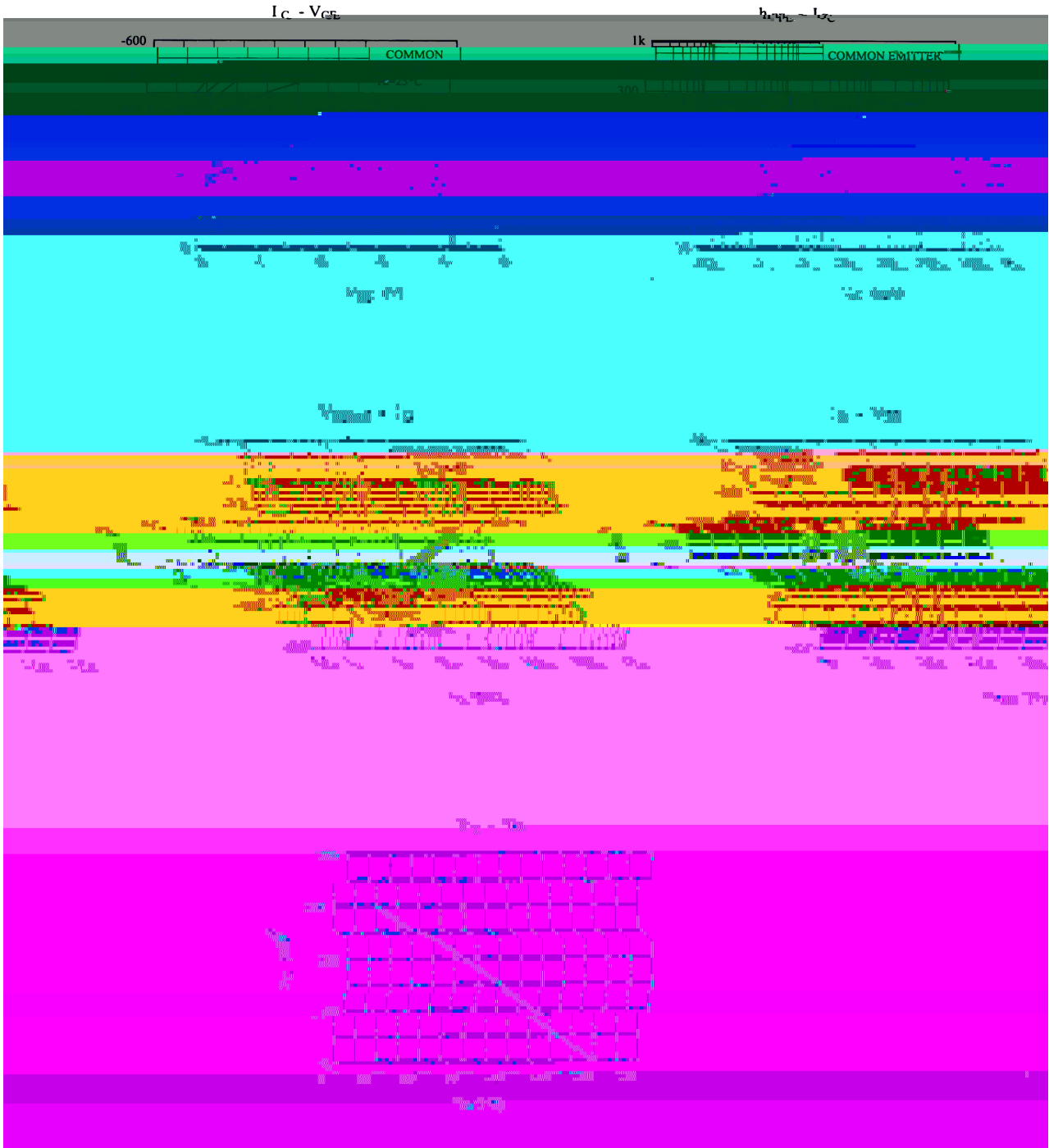
**/ Absolute Maximum Ratings(Ta=25 )**

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	

**/ Electrical Characteristics(Ta=25 )**

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector Cut-Off Current	$I_{CBO}$	$V_{CB}=-35V$ $I_E=0$			-0.1	$\mu A$
Emitter Cut-Off Current	$I_{EBO}$	$V_{EB}=-5.0V$ $I_C=0$			-0.1	$\mu A$
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-Emitter Voltage	$V_{BE}$	$V_{CE}=-1.0V$ $I_C=-100mA$		-0.8	-1.0	V
Transition Frequency	$f_T$	$V_{CE}=-6.0V$ $I_C=-20mA$		200		MHz
Collector Output Capacitance	$C_{ob}$	$V_{CB}=-6.0V$ $I_E=0$ $f=1.0MHz$		13		pF

/ Electrical Characteristic Curve





/ Marking Instructions



H

AZ

O             $h_{FE}$

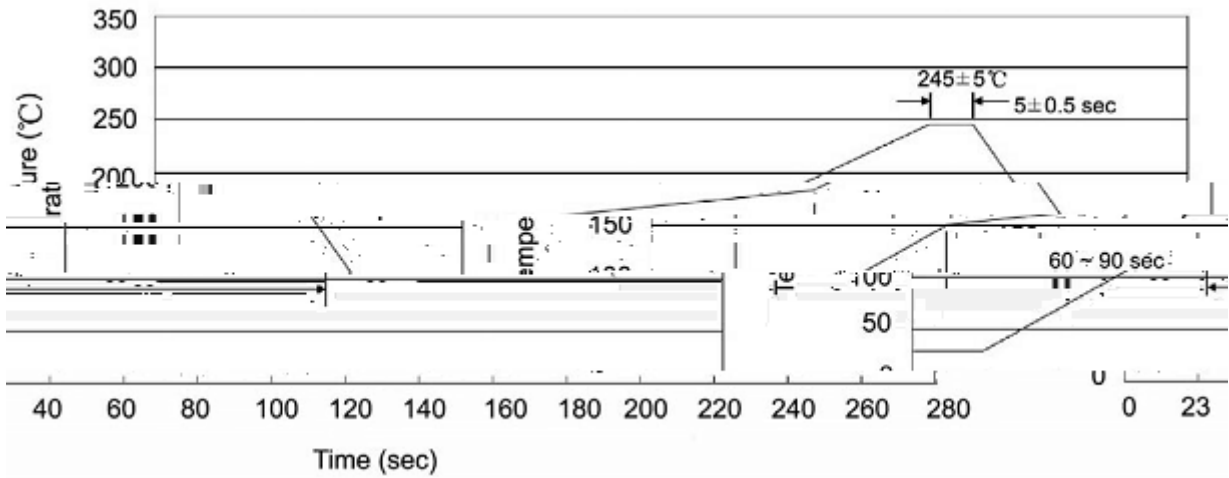
Note:

H            Company Code

AZ          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 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm <sup>3</sup> )		
	只卷盘	卷盘盒	只盒	盒箱	只箱	盒		箱

/ Notices