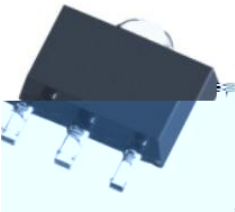
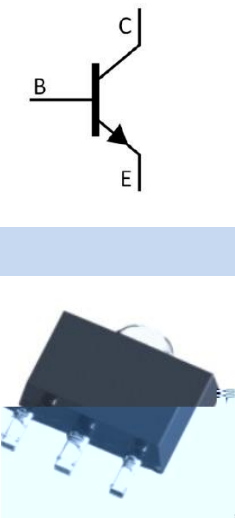


Silicon NPN transistor in a SOT-89 Plastic Package.

Adoption of MBIT processes, low collector-to-emitter saturation voltage, fast Switching Speed, Large current capacity and wide ASO, Complementary to KTB1124. Halogen-free Product.

Voltage regulators ,relay drivers lamp drivers, electrical equipment.



PIN1 Base PIN 2 Collector PIN 3 Emitter

h _{FE} Classifications Symbol	A	B	C
h _{FE} Range	100 200	140 280	200 400
Marking	YHA *	YHB *	YHC *

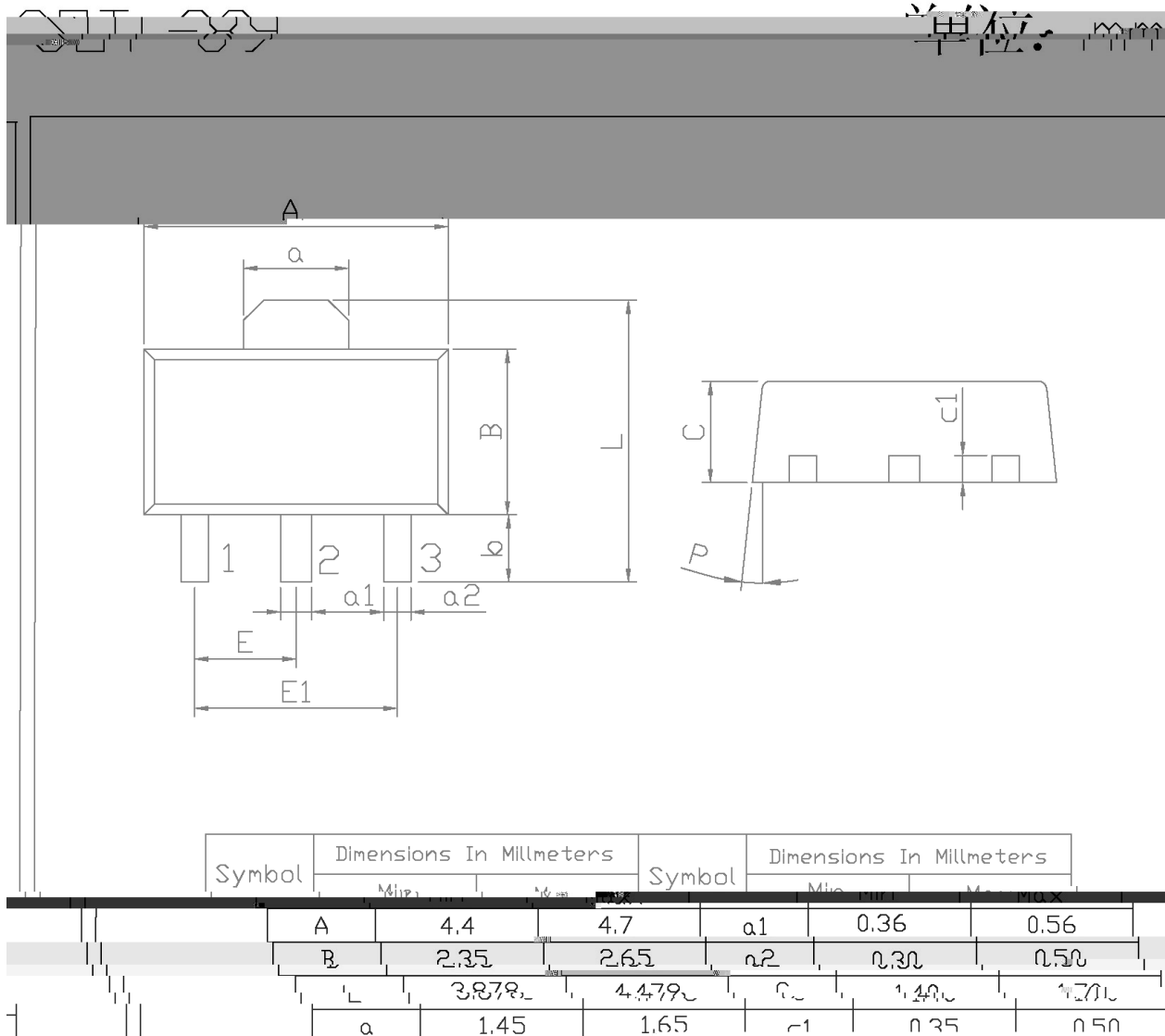
Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	60	V
Collector to Emitter Voltage	V_{CEO}	50	V
Emitter to Base Voltage	V_{EBO}	6.0	V
Collector Current - Continuous	I_C	3.0	A
Collector Current – Continuous Pulse	I_{CP}	6.0	A
Collector Power Dissipation	P_C	500	mW
Collector Power Dissipation*	$*P_C$	1.0	W
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55 150	

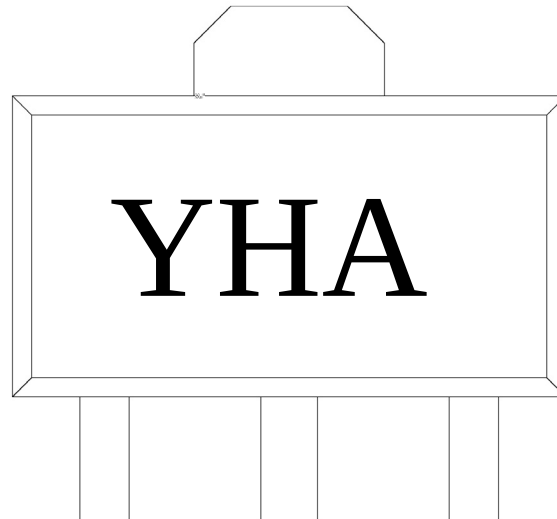
*:Package mounted on ceramic substrate(250mm²×0.8t)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector to Base Breakdown Voltage	V_{CBO}	$I_C=10\text{ A}$ $I_E=0$	60			V
Collector to Emitter Breakdown Voltage	V_{CEO}	$I_C=1.0\text{mA}$ $I_B=0$	50			V
Emitter to Base Breakdown Voltage	V_{EBO}	$I_E=10\text{ A}$ $I_C=0$	6.0			V
Collector Cut-Off Current		$V_{CB}=40\text{V}$ $I_E=0$			1.0	A
Emitter Base Cut-Off Current		$V_{EB}=4.0\text{V}$ $I_C=0$			1.0	A
DC Current Gain		$V_{CE}=2.0\text{V}$ $I_C=100\text{mA}$	100		400	
		$V_{CE}=2.0\text{V}$ $I_C=3.0\text{A}$	35			
Collector to Emitter Saturation Voltage		$I_C=2.0\text{A}$ $I_B=100\text{mA}$		0.19	0.5	V
Base to Emitter Voltage		$I_C=2.0\text{A}$ $I_B=100\text{mA}$		0.94	1.2	V

Transition Frequency

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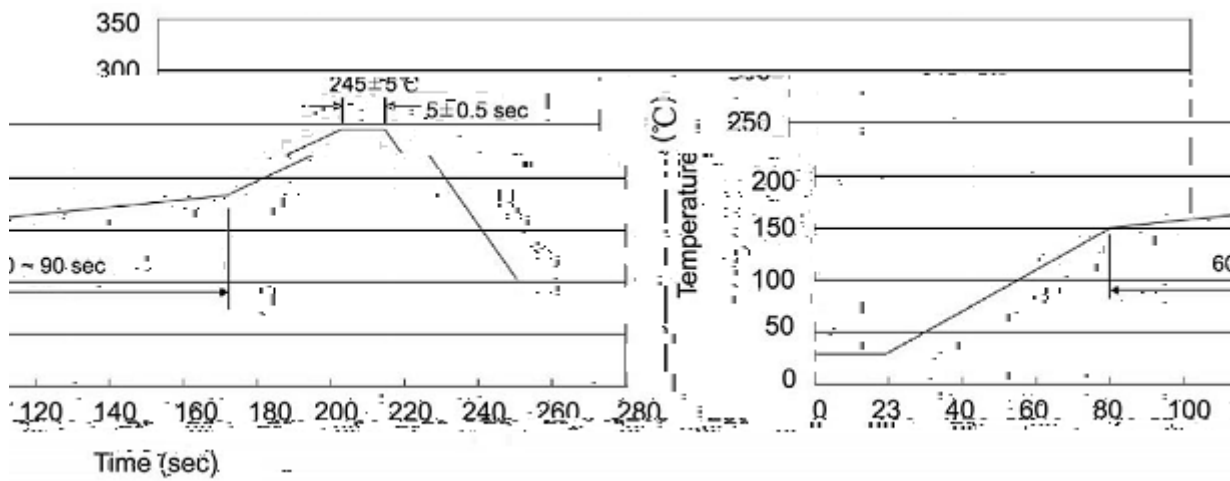
Y
H
A h_{FE}

Note:

Y: Product Type.
H: Company Code.
A h_{FE} Classifications Symbol
**: Lot No. Code, code change with Lot No.

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Temperature Profile for IR Reflow Soldering(Pb-Free)



Note:

1. Preheating: 25~150 °C, Time: 60~90sec;
2. Peak Temp.: 245 ± 5 °C, Duration: 5 ± 0.5sec;
3. Cooling Speed: 2~10 °C/sec.

1. Preheating: 25~150 °C, Time: 60~90sec.
2. Peak Temp.: 245 ± 5 °C, Duration: 5 ± 0.5sec.
3. Cooling Speed: 2~10 °C/sec.

260 ± 5

10 ± 1 sec.

Temp.: 260±5

Time: 10±1 sec

/ REEL

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm ³)		
	只 卷盘	卷盘 盒	只 盒	盒 箱	只 箱		盒	箱