/ Absolute Maximum Ratings(Ta=25)

Parameter	Symbol		Rating	Unit
Collector to Base Voltage	V_{CBO}		-120	V
Collector to Emitter Voltage	V_{CEO}	2SB647T	-80	V
		2SB647AT	-100	
Emitter to Base Voltage	V_{EBO}		-5.0	V
Collector Current (DC)	I_C		-1.0	A
Collector Current(Pulse)	I_{CP}		-2.0	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	

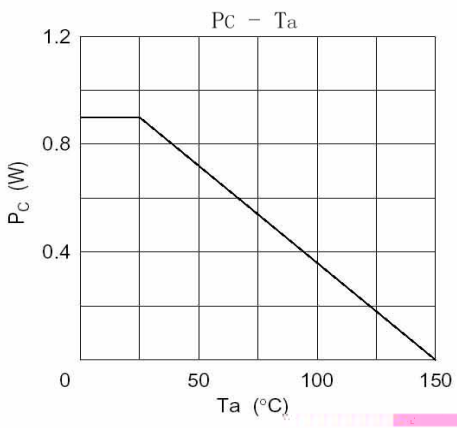
*:mounted on ceramic substrate(250mm^2×0.8t).

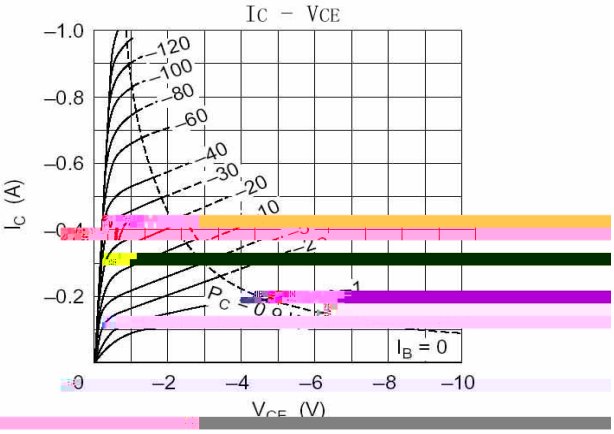
* 250mm^2×0.8t

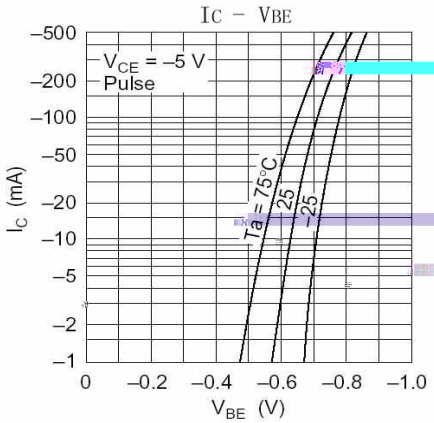
/ Electrical Characteristics(Ta=25)

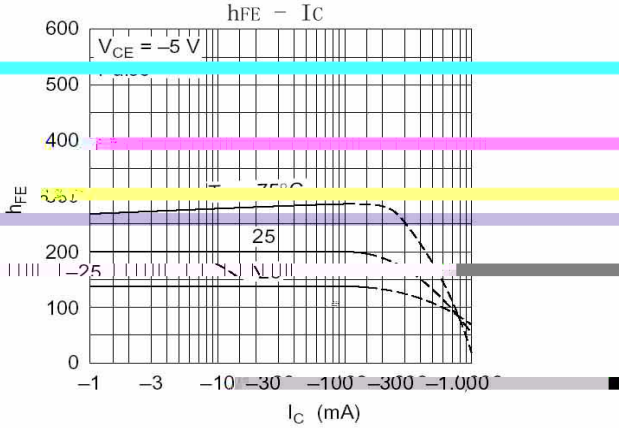
Parameter	Symbol		Test Conditions	Min	Typ	Max	Unit
Collector to Base Breakdown Voltage	V_{CBO}		I_C=-10 A I_E=0	-120			V
Collector to Emitter Breakdown Voltage	V_{CEO}	2SB647T	I_C=-1.0mA R_{BE}=	-80			V
		2SB647AT		-100			
Emitter to Base Breakdown Voltage	V_{EBO}		I_E=-10 A I_C=0	-5.0			V
Collector Cut-Off Current	I_{CBO}		V_{CB}=-100V I_E=0			-10	A
DC Current Gain	$h_{FE(1)}$		V_{CE}=-5.0V I_C=-150mA	60		320	
	$h_{FE(2)}$		V_{CE}=-5.0V I_C=-500mA	30			
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$		I_C=-500mA I_B=-50mA			-1.0	V
Base to Emitter Voltage	V_{BE}		V_{CE}=-5.0V I_C=-150mA			-1.5	V
Transition Frequency	f_T		V_{CE}=-5.0V I_C=-150mA		140		MHz
Collector Output Capacitance	C_{ob}		V_{CB}=-10V I_E=0 f=1.0MHz		12		pF

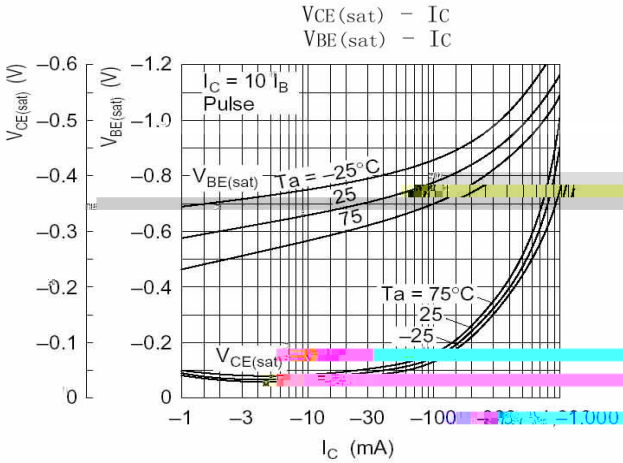
/ Electrical Characteristic Curve

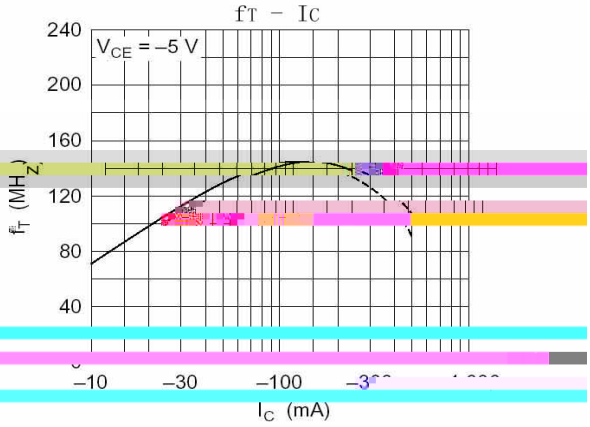




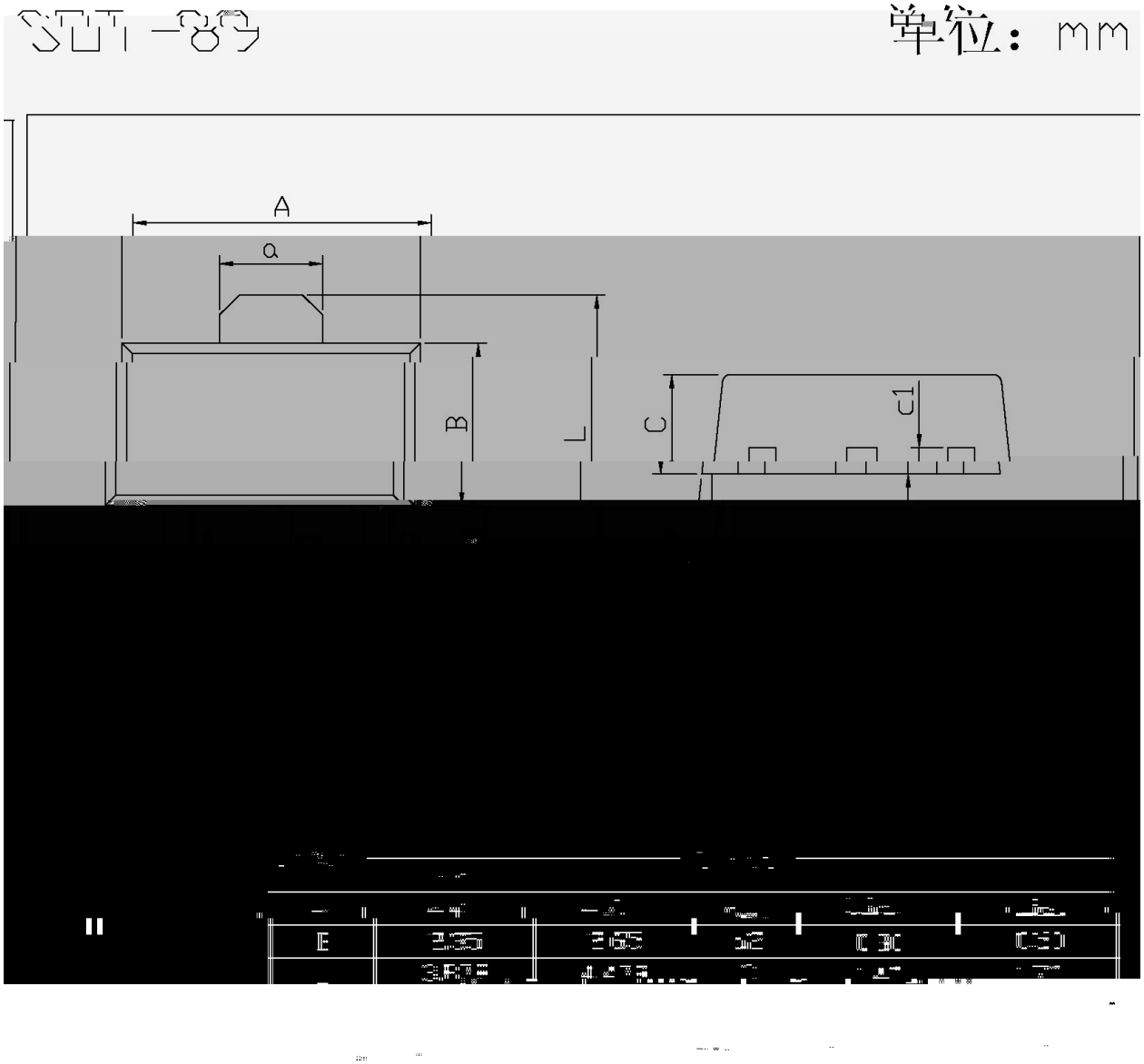




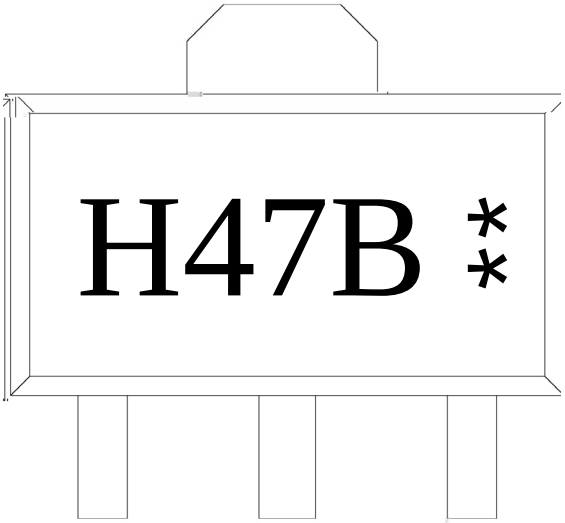




/ Package Dimensions



/ Marking Instructions



H:

47

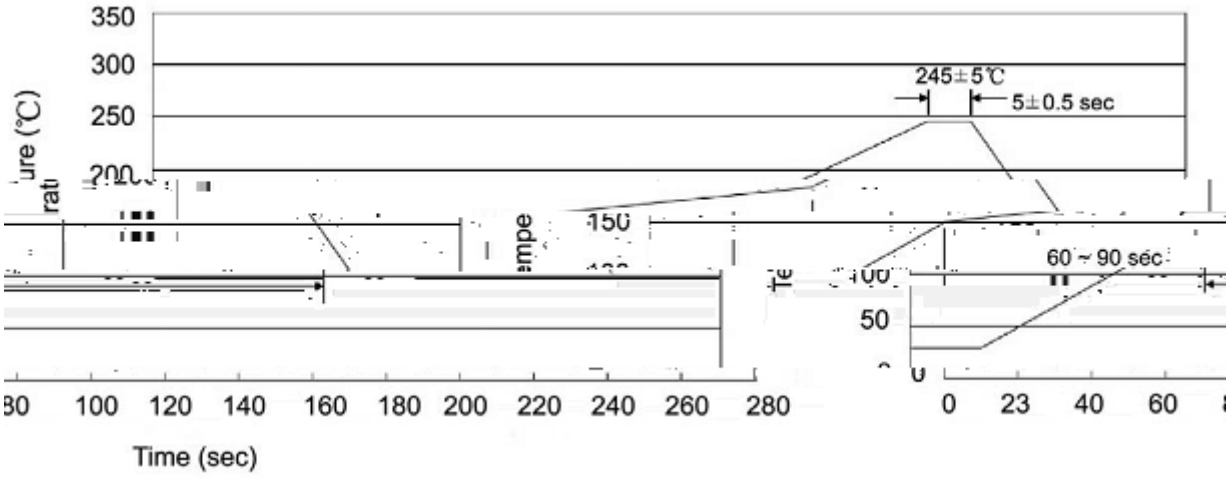
B: h_{FE}

****

Note:

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

( ) / Temperature Profile for Dip 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^3)		
	只 卷盘	卷盘 盒	只 盒	盒 箱	只 箱		盒	箱

/ Notices