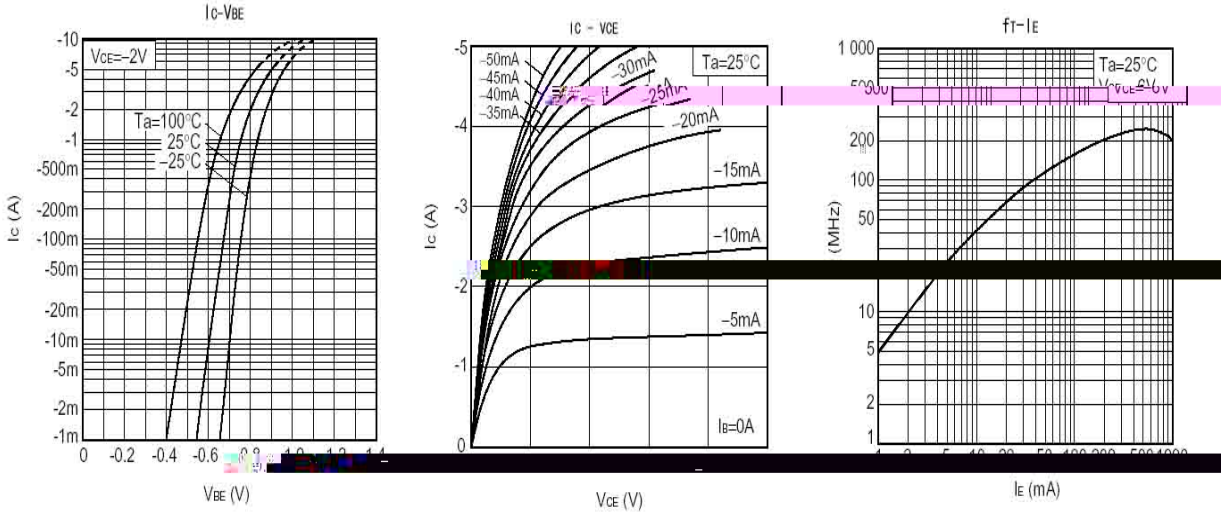
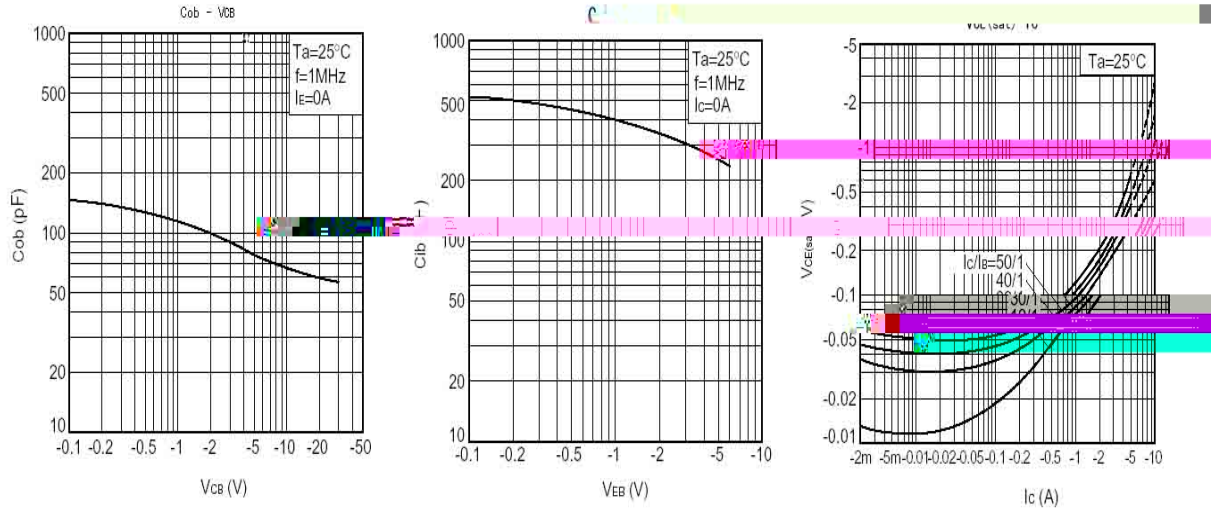
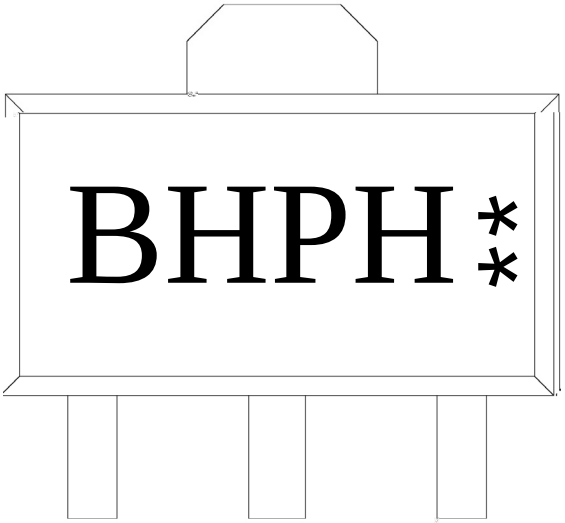
Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	-30	V
Collector to Emitter Voltage	V_{CEO}	-20	V
Emitter to Base Voltage	V_{EBO}	-6.0	V
Collector Current-Continuous	I_C	-5.0	A
Collector Base-Continuous(Pulse)	I_{CP}	-10	A
Collector Power Dissipation	P_C	0.5	W
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55 150	

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector to Base Breakdown Voltage	V_{CBO}	I_C=-50μA I_E=0	-30			V
Collector to Emitter Breakdown Voltage	V_{CEO}	I_C=-1.0mA I_B=0	-20			V
Emitter to Base Breakdown Voltage	V_{EBO}	I_E=-50μA I_C=0	-6.0			V
Collector Cut-Off Current	I_{CBO}	V_{CB}=-20V I_E=0			-0.5	μA
Emitter Base Cut-Off Current	I_{EBO}	V_{EB}=-5.0V I_C=0			-0.5	μA
DC Current Gain	h_{FE}	V_{CE}=-2.0V I_C=-0.5A	82		390	
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	I_C=-4.0A I_B=-0.1A		-0.35	-1.0	V
Transition Frequency	f_T	V_{CE}=-6.0V I_C=-50mA f=30MHz		120		MHz
Collector Output Capacitance	C_{ob}	V_{CE}=-20V I_E=0 f=1.0MHz		60		pF


Ic-VBE
VCE=-2V
Ta=100°C
25°C
-25°C
Ic (A)
VBE (V)
Ic - VCE
Ta=25°C
-50mA
-45mA
-40mA
-35mA
-30mA
-25mA
-20mA
-15mA
-10mA
-5mA
IB=0A
Ic (A)
VCE (V)
fT-IE
Ta=25°C
(MHz)
IE (mA)


Cob - VCB
Ta=25°C
f=1MHz
IE=0A
Cob (pF)
VCB (V)
Ta=25°C
f=1MHz
Ic=0A
VEB (V)
Ta=25°C
Ic/IB=50/1
40/1
Ic (A)


hFE-IC
Ta=100°C
25°C
-25°C
hFE
Ic (A)



BH

P h_{FE}

H

**

Note:

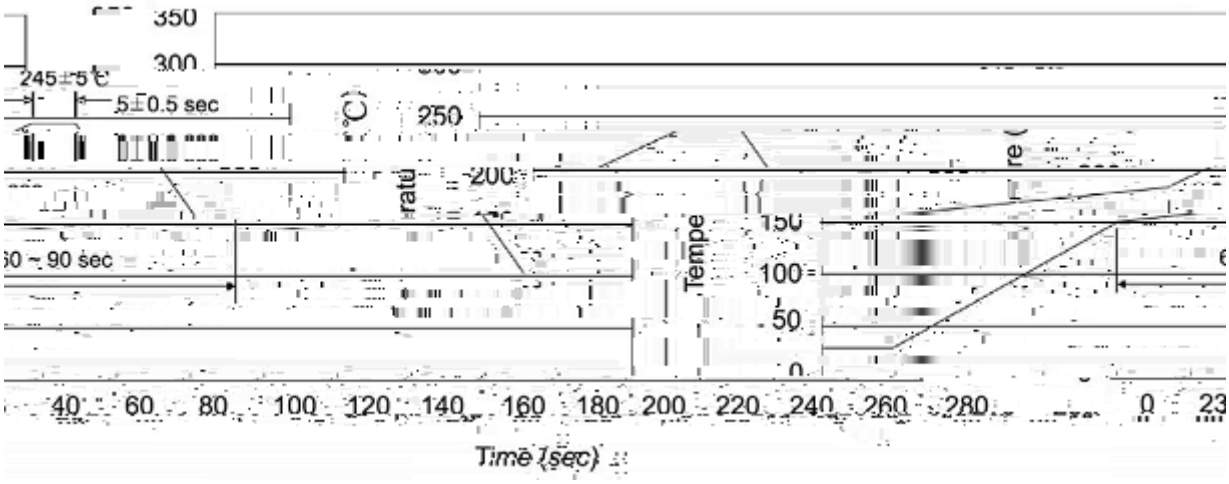
BH: Product Type.

P h_{FE} Classifications Symbol

H: Company Code.

**: Lot No. Code, code change with Lot No.

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.	