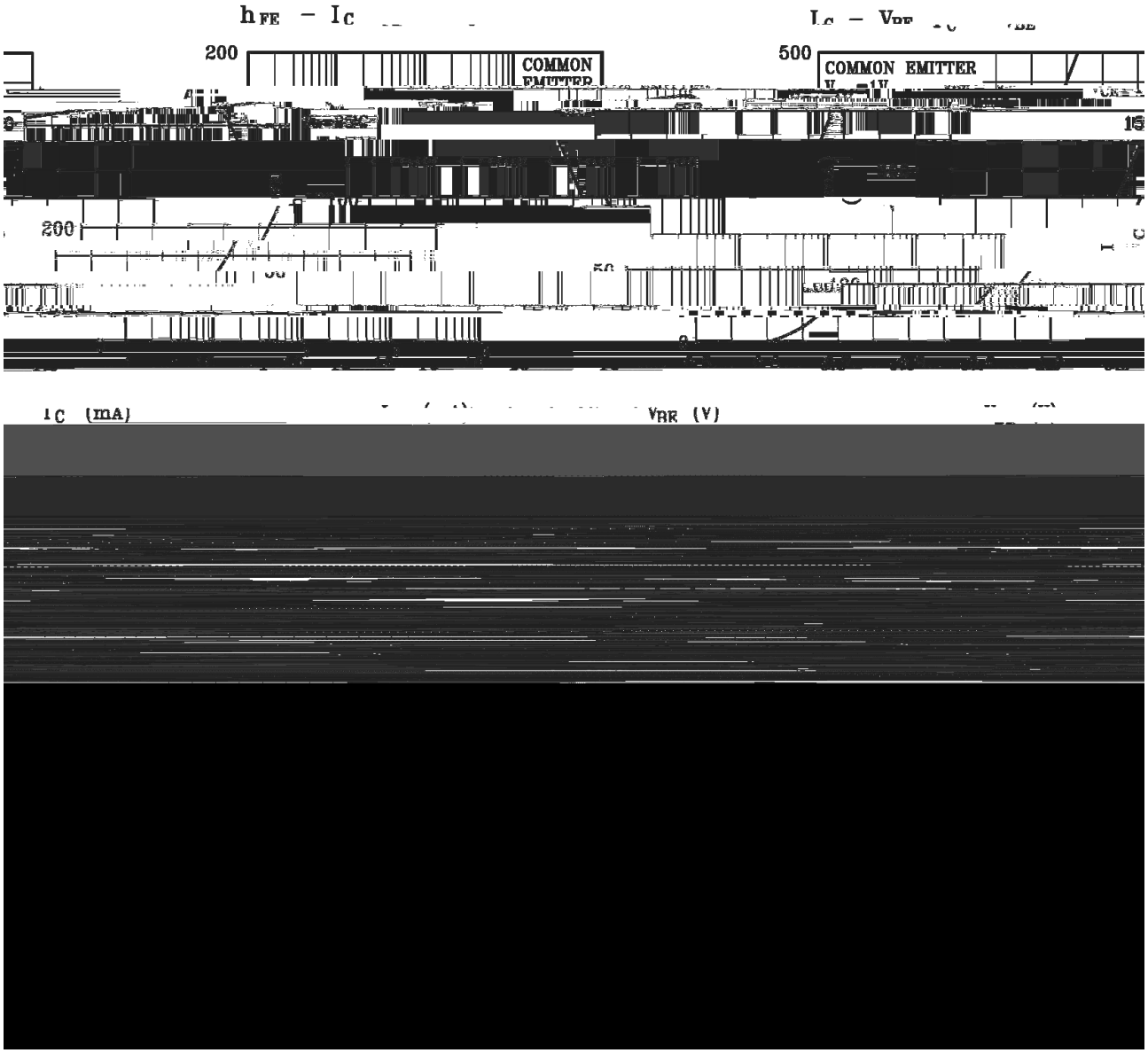
/ Absolute Maximum Ratings(Ta=25)

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	50	V
Collector to Emitter Voltage	V_{CEO}	45	V
Emitter to Base Voltage	V_{EBO}	5.0	V
Collector Current - Continuous	I_C	500	mA
Collector Current - peak collector current	I_{CM}	1.0	A
Collector Power Dissipation	P_C	250	mW
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55 150	

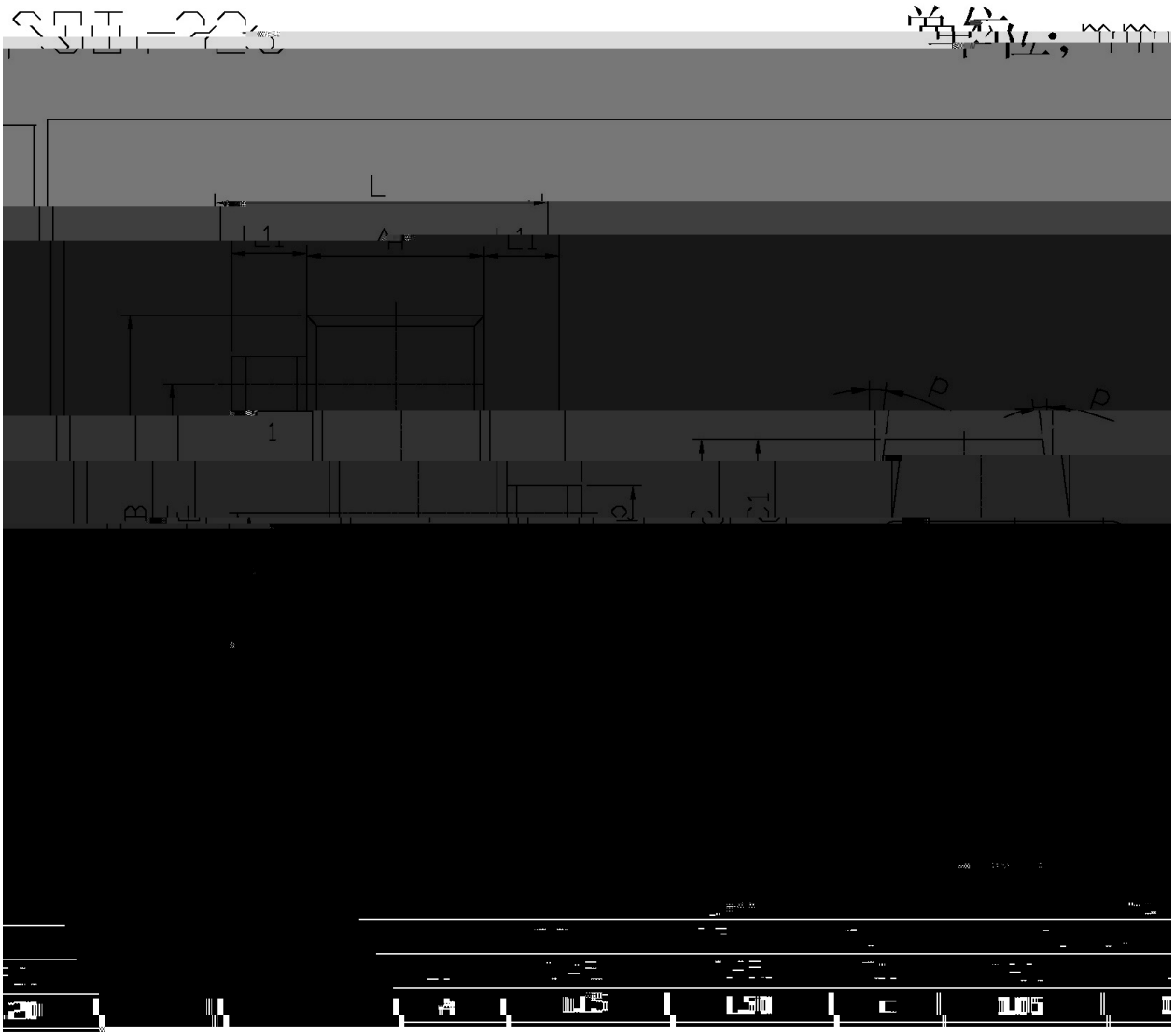
/ Electrical Characteristics(Ta=25)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector to Base Breakdown Voltage	V_{CBO}	I_C=10 A I_E=0	50			V
Collector to Emitter Breakdown Voltage	V_{CEO}	I_C=10mA I_B=0	45			V
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}=20V I_E=0			0.1	A
Emitter Cut-Off Current	I_{EBO}	V_{EB}=5.0V I_E=0			0.1	A
DC Current Gain	$h_{FE(1)}$	V_{CE}=1.0V I_C=100mA	100		600	
	$h_{FE(2)}$	V_{CE}=1.0V I_C=500mA	40			
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	I_C=500mA I_B=50mA			0.7	V
Base to Emitter Voltage	V_{BE}	V_{CE}=1.0V I_C=500mA			1.2	V
Transition Frequency	f_T	V_{CE}=5.0V I_C=10mA	100			MHz
Collector Output Capacitance	C_{ob}	V_{CB}=10V I_E=0 f=1.0MHz		5.0		pF

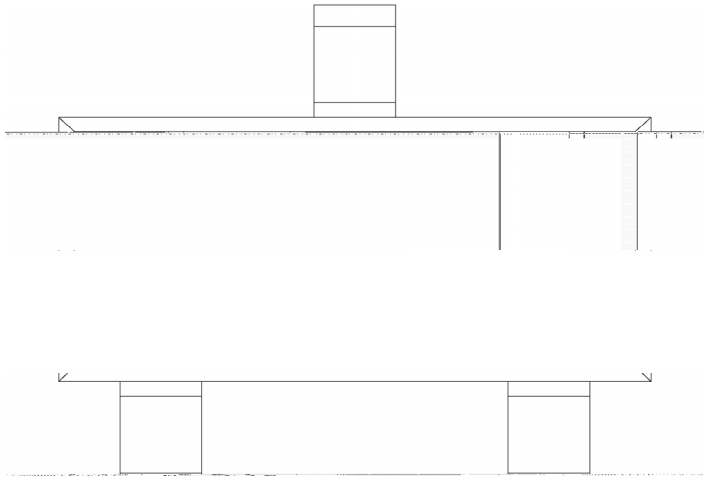
/ Electrical Characteristic Curve



/ Package Dimensions



/ Marking Instructions



Note:

H: Company Code