

DTC124EKA
Rev.F May.-2019

SOT-23

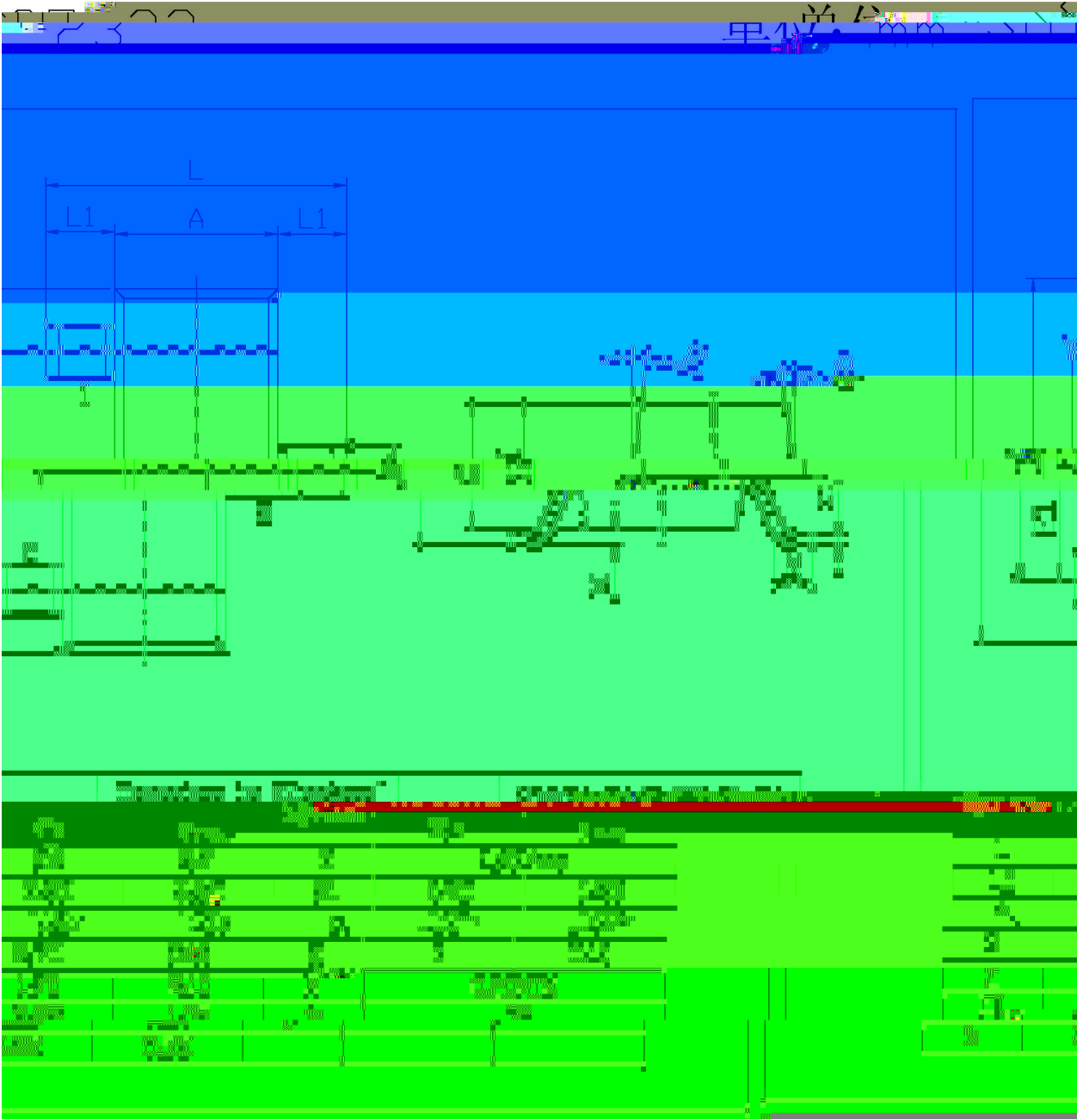
NPN

Silicon NPN Digital transistor in a SOT-23 Plastic Package.

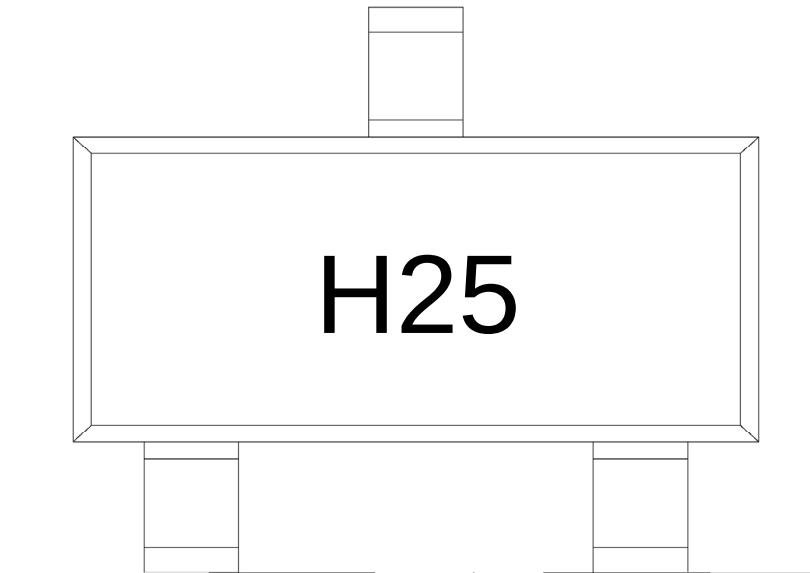
Parameter	Symbol	Rating	Unit
Output Voltage	V_{CC}	50	V
Input Voltage	V_{IN}	40	V
		-10	V
Output Current	I_C	100	mA
	I_O	30	mA
Power Dissipation	P_C	200	mW
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55 150	

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Input Voltage(OFF)	$V_{I(off)}$	$v_{CC}=5.0V$ $I_O=100 A$			0.5	V
Input Voltage(ON)	$V_{I(on)}$	$V_O=0.2V$ $I_O=5.0mA$	3.0			V
Output Voltage	$V_{O(on)}$	$I_O=10mA$ $I_I=0.5mA$		0.1	0.3	V
Input Current	I_I	$V_I=5.0V$			0.36	mA
Output Cut-off Current	$I_{O(off)}$	$V_{CC}=50V$ $V_I=0V$			0.5	A
DC Current Gain	G_I	$V_O=5.0V$ $I_O=5.0mA$	56			
Transition Frequency	f_T	$V_{CE}=10V$ $I_C=5.0mA$ $f=100MHz$		250		MHz
Resistance1	R_1		15.4	22	28.6	K
Resistance Ratio	R_22					

/ Package Dimensions



/ Marking Instructions



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Note:

H Company Code

25 Product Type Code

