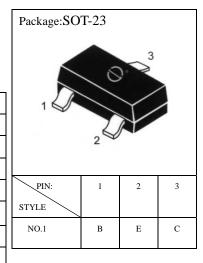
2SA733LT1

PNP EPITAXIAL SILICON TRANSISTOR

* Collector Current : Ic=150mA

ABSOLUTE MAXIMUM RATINGS at Ta=25°C

Characteristic	Symbol	Rating	Unit
Collector-Base Voltage	Vcbo	-60	V
Collector-Emitter Voltage	Vceo	-50	V
Emitter-Base Voltage	Vebo	-5	V
Collector Current	Ic	-150	mA
Collector Dissipation Ta=25 °C*	P_{D}	225	mW
Junction Temperature	Tj	150	$^{\circ}$
Storage Temperature	Tstg	-55-150	$^{\circ}$



ELECTRICAL CHARACTERISTICS at Ta=25°C

Characteristic	Symbol	Min	Тур	Max	Unit	Test Conditions
Collector-Base Breakdown Voltage	BVcbo	-60			V	Ic= -100uA Ie=0
Collector-Emitter Breakdown Voltage#	BVceo	-50			V	Ic=-1mA Ib=0
Emitter-Base Breakdown Voltage	BVebo	-5.0			V	Ie= -100uA Ic=0
Collector-Base Cutoff Current	Icbo			-100	nA	Vcb= -50V Ie=0
Emitter-Base Cutoff Current	Iebo			-100	nA	Veb= -3V Ic= 0
DC Current Gain	Hfe	200		400		Vce= -6V Ic= -2mA
Collector-Emitter Saturation Voltage	Vce(sat)			-0.30	V	Ic= -100mA Ib= -10mA

* Total Device Dissipation : FR=1x0.75x0.062in Board, Derate 25°C.

Pulse Test : Pulse Width \leq 300uS,Duty cycle \leq 2%

DEVICE MARKING:

2SA733LT1=M6



Shandong Yiguang Electronic Joint stock Co., Ltd TECHNICAL DATA

2SA733LT1

PNP EPITAXIAL SILICON TRANSISTOR

Fig. 1 P_c-T_a

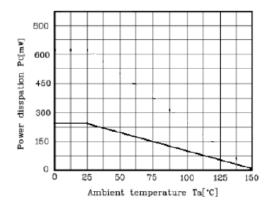


Fig. 4 h_{FE} I_C

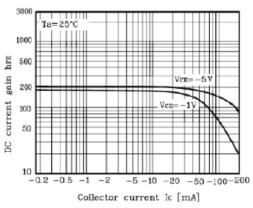
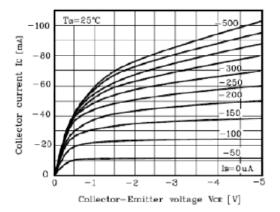


Fig. 3 $I_{\text{c-}}V_{\text{ce}}$



2SA733LT1

Fig. 2 I_C - V_{BE}

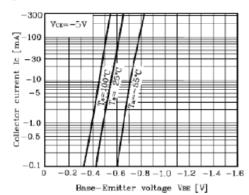
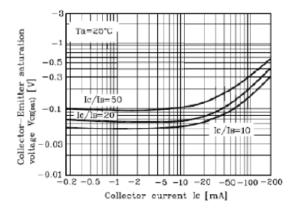
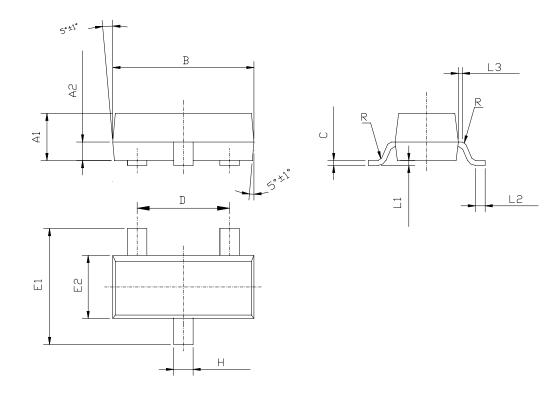


Fig. 5 $V_{\text{CE(sat)}}$. I_{C}

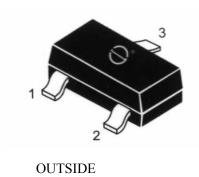


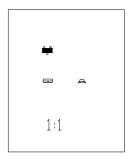
外型尺寸及内部结构图

OUTSIDE DEMENSION AND INTERNAL CONFIGURATION (SOT-23)

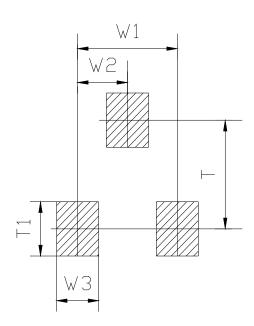


Symbol	Dimensions in Millimeters			内部结构	管脚 PIN			
29-22-02	Min	Nominal	Max	STYLS	1 脚	2 脚	3 脚	
A1	0.900	0.970	1.000	6	基极	发射极	集电极	
A2	0.350	0.380	0.410	0	BASE	EMITTER	COLLCTOR	
В	2.800	2.900	3.000	8	阳极	不连接 NO-	阴极	
С	0.085	0.100	0.150	0	ANODE	CONNECTION	CATHODE	
D	1.800	1.900	2.000	9	阳极	阳极	阴极 CATHODE	
E1	2.200	2.400	2.600	9	ANODE	ANODE		
E2	1.200	1.300	1.400	11	阳极	阴极	阳极-阴极	
Н	0.300	0.400	0.500	11	ANODE	CATHODE	ANODE-CATHODE	
L1	0.000		0.100	12	阴极	阴极	阳极	
L2	0.200			12	CATHODE	CATHODE	ANODE	
L3	0.030	0.080	0.130	18	不连接 NO-	阴极	阳极	
R	0.080TYP		10	CONNECTION	CATHODE	ANODE		
				19	阴极 CATHODE	阳极 ANODE	阴极-阳极 CATHODE-ANODE	





IDE Scale 1:1 on letter size paper

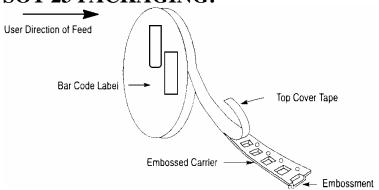


FOOTPRINTS FOR SOLDERING

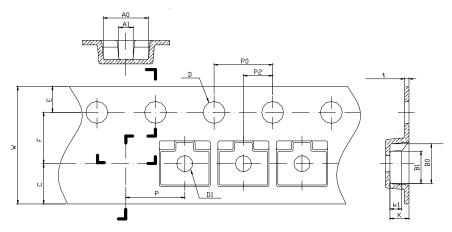
Symbol	Dimensions in Millimeters	Dimensions in Inches		
	Nominal	Nominal		
W1	1.900	0.0748		
W2	0.950	0.0374		
W3	0.800	0.0315		
Т	2.000	0.0787		
T1	1.000	0.0394		

SOT-23 TAPE AND REEL DATA

SOT-23 PACKAGING:

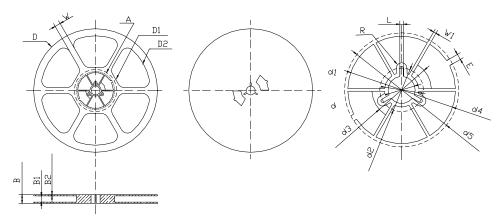


SOT-23 EMBOSSED CARRIER TAPE:



Symbol	Dimens	ions in Mil	limeters	Dimensions in Inches		
	Minimum	Nominal	Maximum	Minimum	Nominal	Maximum
A0	3.050	3.150	3.250	0.1201	0.1240	0.1280
A1	0.900	1.000	1.100	0.0354	0.0394	0.0433
В0	2.669	2.769	2.869	0.1051	0.1090	0.1130
B1	2.100	2.200	2.300	0.0827	0.0866	0.0906
С		2.750TYP		0.1083TYP		
D	1.500	1.500	1.600	0.0591	0.0591	0.0630
D1	0.900	1.000	1.100	0.0354	0.0394	0.0433
Е	1.650	1.750	1.850	0.0650	0.0689	0.0728
F	3.450	3.500	3.550	0.1358	0.1378	0.1398
K	1.119	1.219	1.319	0.0441	0.0480	0.0519
K1		0.850TYP		0.03346TYP		
P	3.900	4.000	4.100	0.1535	0.1575	0.1614
P0	3.900	4.000	4.100	0.1535	0.1575	0.1614
P010	39.800	40.000	40.200	1.5669	1.5748	1.5827
P2	1.950	2.000	2.050	0.0768	0.0787	0.0807
t	0.216	0.229	0.242	0.0085	0.0090	0.0095
W	7.900	8.000	8.300	0.3110	0.3150	0.3268

SOT-23 REEL DATA:



Symbol	Dimens	ions in Mil	limeters	Dimensions in Inches		
	Minimum Nominal Maximum		Minimum	Nominal	Maximum	
В	-	-	12.500	-	-	0.4921
B1	8.900	9.000	9.100	0.3504	0.3543	0.3583
B2	1.700	1.750	1.800	0.0669	0.0689	0.0709
D	ф177.000 ф178.000 ф179.0		ф179.000	Ф6.9685	Φ7.0079	Ф7.0472
D1		Ф67.600ТҮР		Ф2.6614ТҮР		
D2		Ф157.600ТҮР)	Ф6.2047 ТҮР		
d	Ф12.800 Ф13.000		Ф13.200	Ф0.5039	Ф0.5118	Ф0.5197
d1		Ф16.40 ТҮР		Ф0.6457 ТҮР		
d2		Ф21.000 ТҮР		Ф0.8268 ТҮР		
d3		Ф25.200 ТҮР		Ф0.99221ТҮР		
d4	Ф50.600 Ф51.600 Ф52.		Ф52.600	Ф1.9921	Ф2.0315	Ф2.0709
d5	Ф53.800	Ф54.800	Ф55.800	Ф2.1181	Ф2.1575	Ф2.1969
Е		2.800 TYP		0.1102TYP		
L		1.750 TYP		0.0689 TYP		
R		2.575 TYP		0.1014 TYP		
W		15.000 TYP		0.5906 TYP		
W1		1.300 TYP		0.0512 TYP		