

00%7 TRANSISTOR (PNP)

(\$785(6  
Switching transistor

0\$5., 1\* Ö 7

627

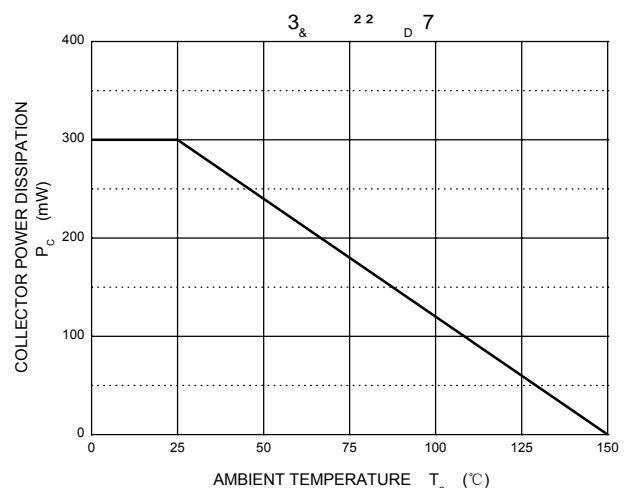
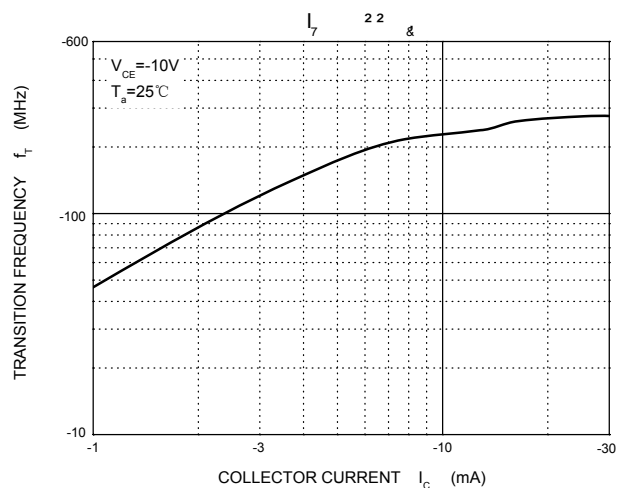
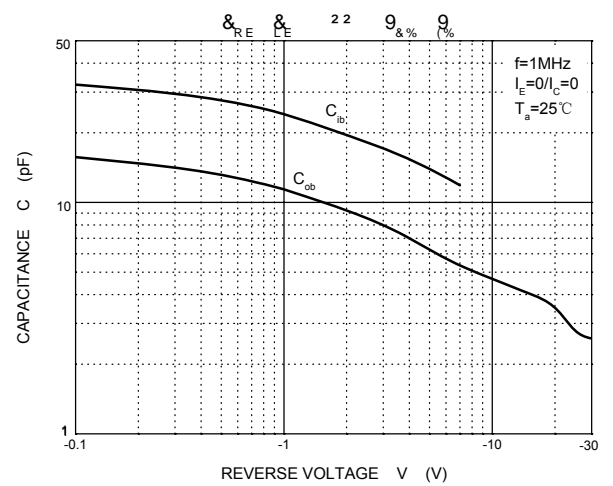
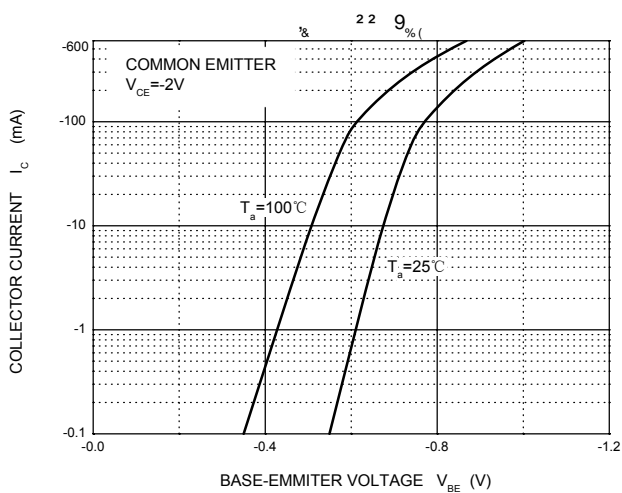
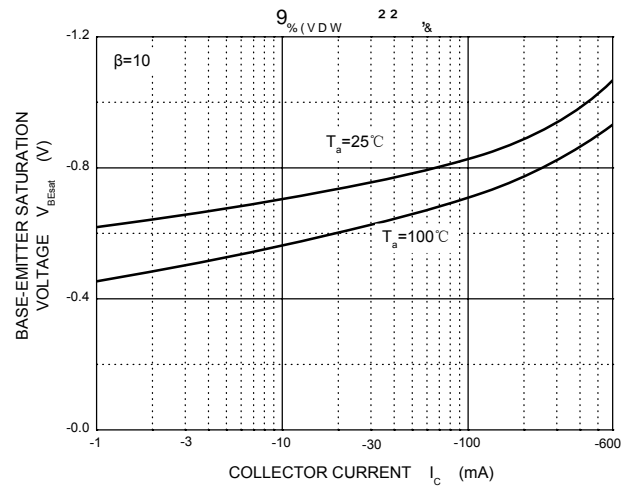
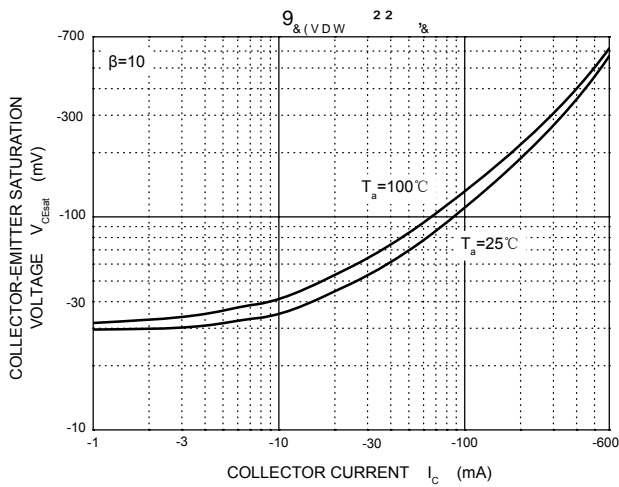
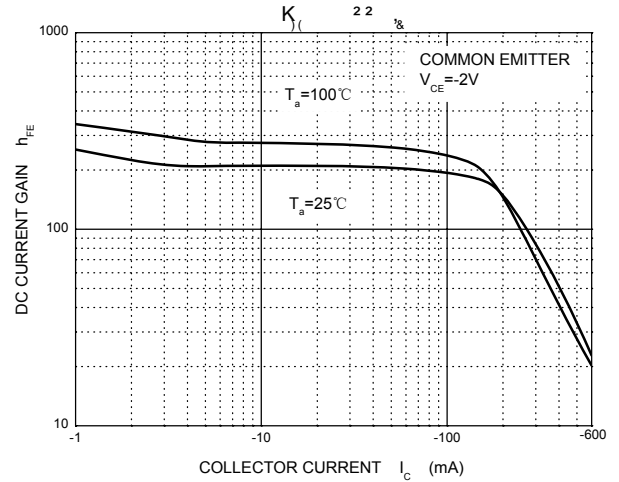
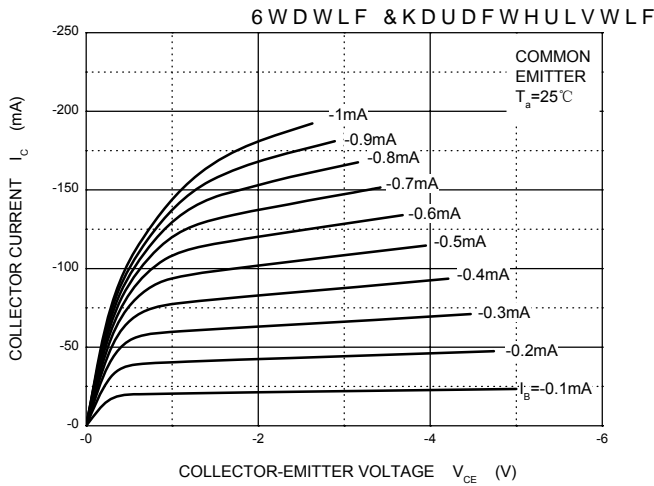
1. BASE  
2. EMITTER  
3. COLLECTOR

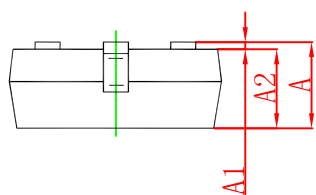
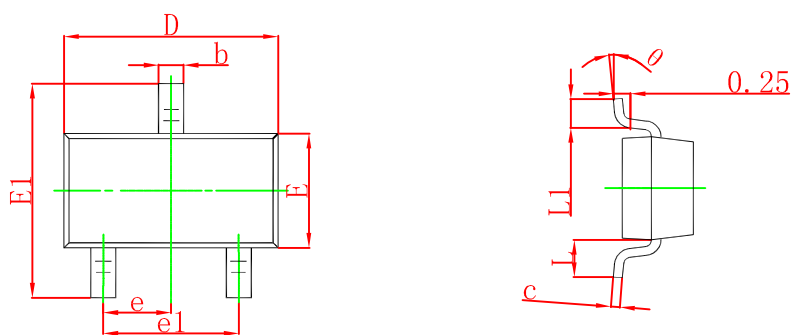
0\$;, 080 5\$7, 1\*6\_D 7/ XQOHVV RWKHUZZLVH QRWHG

6\PERO	3DUDPHWHU	9DOXH	8QLW
9&%2	&RDFWRU %DVH 9ROWDJH		9
9&(2	&RDFWRU (PLWWHU 9ROWDJH		9
9(%2	(PLWWHU %DVH 9ROWDJH		9
,&	&RDFWRU &XUUHQW		P\$
3&	&RDFWRU 3RZHU 'LVVLSDWLRQ		P:
5,-\$	7KHDO 5HVLVWDQFH )URP -XQFWLRQ 7R: \$PELHQW		
7M	-XQFQVZRP SHUDWXUH		/
7VWJ	6URDJH 7HP SHUDWXUH		/

(/(&75, &\$+\$&7(5,67, &6 7 XQOHVV RWKHUZZLVH VSHFLILHG

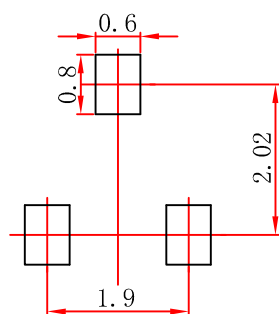
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C=-100 \mu A, I_E=0$	-40			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C=-1mA, I_B=0$	-40			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E=-100 \mu A, I_C=0$	-5			V
Collector cut-off current	$I_{CBO}$	$V_{CB}=-35V, I_E=0$			-0.1	- A
Emitter cut-off current	$I_{EBO}$	$V_{EB}=-4V, I_C=0$			-0.1	- A
DC current gain	$h_{FE1}$	$V_{CE}=-1V, I_C=-0.1mA$	0			
	$h_{FE2}$	$V_{CE}=-1V, I_C=-1mA$	0			
	$h_{FE3}$	$V_{CE}=-1V, I_C=-10mA$	0			
	$h_{FE4}$	$V_{CE}=-2V, I_C=-150mA$	100		300	
	$h_{FE5}$	$V_{CE}=-2V, I_C=-500mA$	0			
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C=-150mA, I_B=-15mA$			-0.4	V
		$I_C=-500mA, I_B=-50mA$			-0.75	V
Base-emitter saturation voltage	$V_{BE(sat)}$	$I_C=-150mA, I_B=-15mA$			-0.95	V
		$I_C=-500mA, I_B=-50mA$			-1.3	V
Transition frequency	$f_T$	$V_{CE}=-10V, I_C=-20mA, f=100MHz$	200			MHz
Delay time	$t_d$	$V_{CC}=-30V, V_{BE(off)}=-0.5V$			15	ns
Rise time	$t_r$	$I_C=-150mA, I_B=-15mA$			20	ns
Storage time	$t_s$	$V_{CC}=-30V, I_C=-150mA$			225	ns
Fall time	$t_f$	$I_{B1}=I_{B2}=-15mA$			0	ns





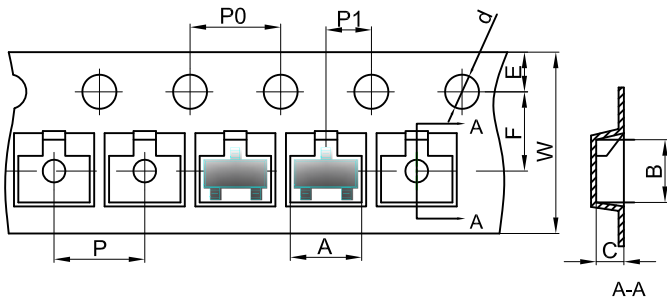
Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	0.900	1.150	0.035	0.045
A1	0.000	0.100	0.000	0.004
A2	0.900	1.050	0.035	0.041
b	0.300	0.500	0.012	0.020
c	0.080	0.150	0.003	0.006
D	2.800	3.000	0.110	0.118
E	1.200	1.400	0.047	0.055
E1	2.250	2.550	0.089	0.100
e	0.950 TYP		0.037 TYP	
e1	1.800	2.000	0.071	0.079
L	0.550 REF		0.022 REF	
L1	0.300	0.500	0.012	0.020
θ	0°	8°	0°	8°

## SOT-23 Suggested Pad Layout



- Note:
1. Controlling dimension: in millimeters.
  2. General tolerance:  $\pm 0.05$  mm.
  3. The pad layout is for reference purposes only.

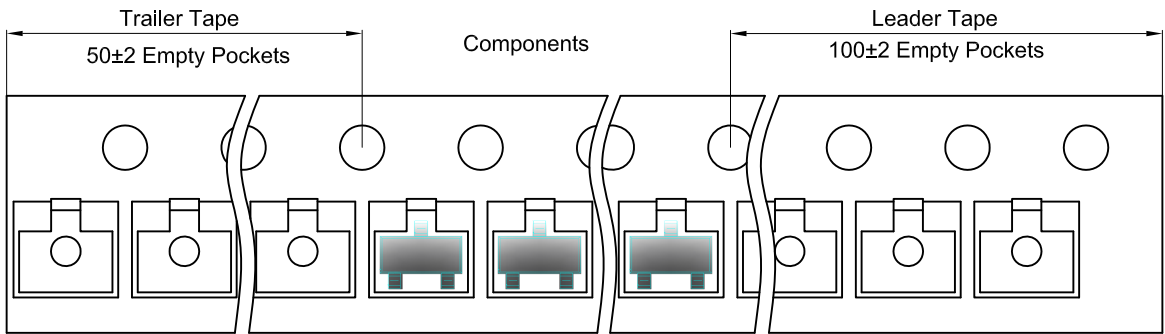
### SOT-23 Embossed Carrier Tape



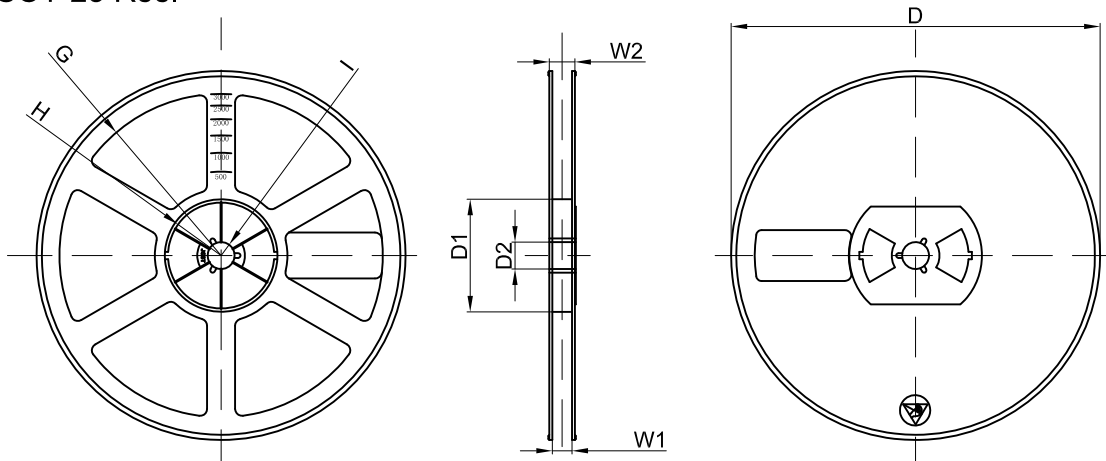
**Packaging Description:**  
 SOT-23 parts are shipped in tape. The carrier tape is made from a dissipative (carbon filled) polycarbonate resin. The cover tape is a multilayer film (Heat Activated Adhesive in nature) primarily composed of polyester film, adhesive layer, sealant, and anti-static sprayed agent. These reeled parts in standard option are shipped with 3,000 units per 7" or 17.8cm diameter reel. The reels are clear in color and is made of polystyrene plastic (anti-static coated).

Dimensions are in millimeter										
Pkg type	A	B	C	d	E	F	P0	P	P1	W
SOT-23	3.15	2.77	1.22	Ø1.50	1.75	3.50	4.00	4.00	2.00	8.00

### SOT-23 Tape Leader and Trailer



### SOT-23 Reel



Dimensions are in millimeter								
Reel Option	D	D1	D2	G	H	I	W1	W2
7"Dia	Ø178.00	54.40	13.00	R78.00	R25.60	R6.50	9.50	12.30

REEL	Reel Size	Box	Box Size(mm)	Carton	Carton Size(mm)	G.W.(kg)
3000 pcs	7 inch	45,000 pcs	203×203×195	180,000 pcs	438×438×220	