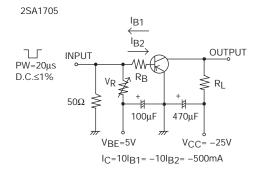
Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Linit
	Symbol	Symbol Conditions		typ	max	Unit
Collector Cutoff Current	ICBO	VCB=-50V, IE=0A			-100	nA
Emitter Cutoff Current	IEBO	V _{EB} =-4V, I _C =0A			-100	nA
DC Current Cain	hFE1	V _{CE} =-2V, I _C =-100mA	140*		400*	
DC Current Gain	h _{FE} 2	V _{CE} =-2V, I _C =-1A	30			
Gain-Bandwidth Product	fT	VCE=-10V, IC=-50mA		150		MHz
Collector-to-Emitter Saturation Voltage	V _{CE} (sat)	IC=-500mA, IB=-50mA		-180	-500	mV
Base-to-Emitter Saturation Voltage	V _{BE} (sat)	IC=-500mA, IB=-50mA		-0.9	-1.2	V
Output Capacitance	Cob	V _{CB} =-10V, f=1MHz		12		pF
Collector-to-Base Breakdown Voltage	V(BR)CBO	IC=-10μΑ, IE=0A	-60			V
Collector-to-Emitter Breakdown Voltage	V(BR)CEO	IC=−1mA, RBE=∞	-50			V
Emitter-to-Base Breakdown Voltage	V(BR)EBO	IE=-10μA, IC=0A	-5			V
Turn-ON Time	ton			40		ns
Storage Time	tstg	See specified Test Circuit.		300		ns
Fall Time	tf			30		ns

 * : The 2SA1705 is classified by 100mA h_{FE} as follows :

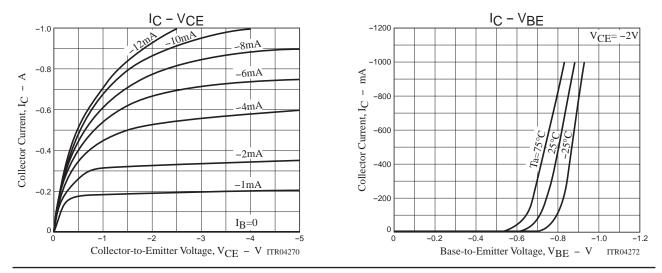
Rank	S	Т
hFE	140 to 280	200 to 400

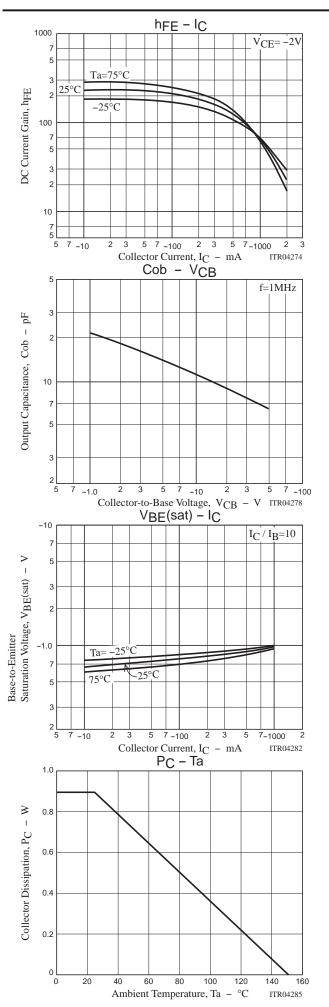
Switching Time Test Circuit

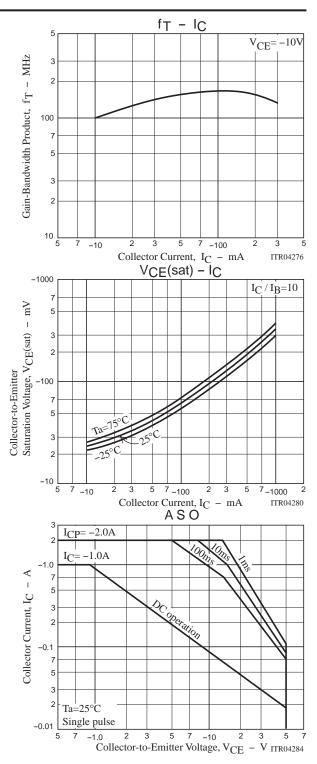


Ordering Information

5			
Device	Package	Shipping	memo
2SA1705S-AN	NMP(Taping)	2,500pcs./box	Pb Free
2SA1705T-AN	NMP(Taping)	2,500pcs./box	PD Flee

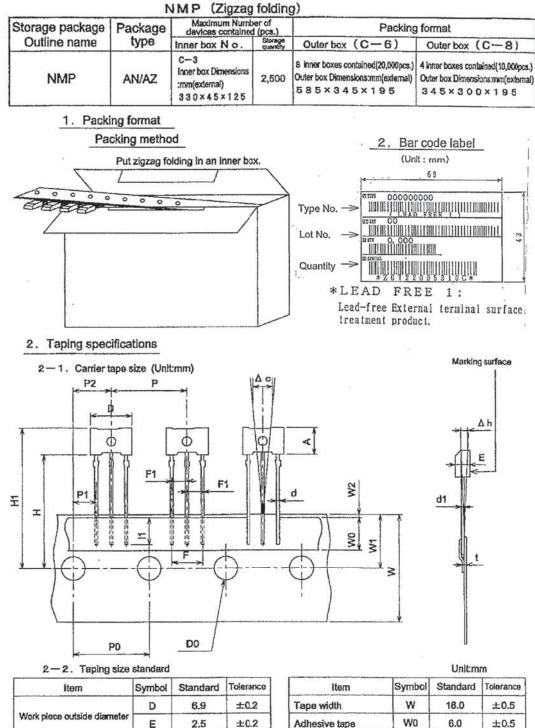






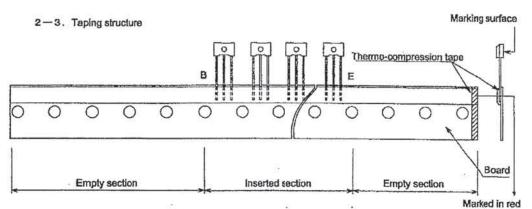
Bag Packing Specification

2SA1705S-AN, 2SA1705T-AN



Item	Symbol	Standard	Tolerance
	D	6.9	±0.2
Work piece outside diameter	E	2.5	±0.2
Work piece height	A	4.5	±0.2
Lead wire diameter	d	0.5	±0.1
Lead wire thickness	d1	0.45	±0.1
Bonded lead wire	11	3.0MIN	
Pitch between products	P	12.7	±0.5
Pitch between perforations	PO	12.7	±0.2
Total pitch for 21 perforations	P0×20	254.0	±1.0
Distance between lead wire	F	5.0	+0.8
Lead wire pitch distance	F1	2.54	+0.4 -0.1
	P1	3.81	±0.3
Displacement of perforations	P2	6.35	±0.3
Displacement of tape	W2	0~0. 5	

Item	Symbol	Standard	Tolerance
Tape width	W	18.0	±0.5
Adhesive tape	WO	6.0	±0.5
Displacement of perforations	W1	9.0	±0.5
Work piece bottom surface position	н	19.0	+1.0
Work piece upper Imit position	H1	23.5	±1.0
Perforations diameter	DO	φ4.0	±0.2
Tape thickness (total thickness)	t	0.6	±0.2
Product inclination	Δc	0	±0.7
Product inclination	Ah	0	±1.0



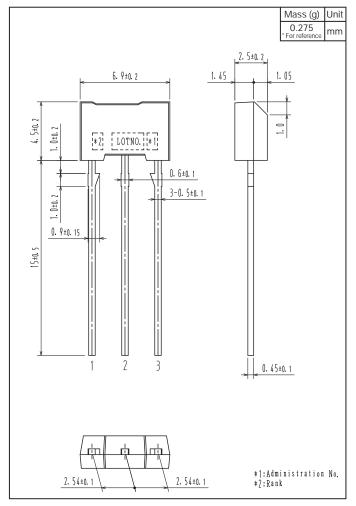
· Provide an empty section for about three to five pleces in leading and end portions of the tape.

· Provide an empty section in the fold-back portion.

· Provide marking in red to the E-side end of the board.

Outline Drawing

2SA1705S-AN, 2SA1705T-AN



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