THERMAL DATA

			TO-39	TO-18	
R _{thj-case}	Thermal Resistance Junction-Case	Max	50	83.3	°C/W
R _{thj-amb}	Thermal Resistance Junction-Ambient	Max	250	375	°C/W

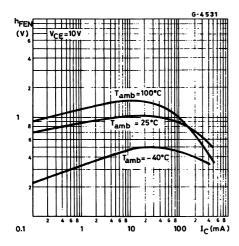
ELECTRICAL CHARACTERISTICS (T_{case} = 25 °C unless otherwise specified)

Symbol	Parameter	Test Conditions	Min.	Тур.	Max.	Unit
I _{СВО}	Collector Cut-off	$V_{CB} = -50 V$			-10	nA
	Current ($I_E = 0$)	$V_{CB} = -50 \text{ V}$ $T_j = 150 ^{\circ}\text{C}$			-10	μA
I _{CEX}	Collector Cut-off Current (V _{BE} = 0.5V)	V _{CE} = -30 V			-50	nA
I _{BEX}	Base Cut-off Current $(V_{BE} = 0.5V)$	V _{CE} = -30 V			-50	nA
V _{(BR)CBO}	Collector-Base Breakdown Voltage (I _E = 0)	I _C = -10 μA	-60	091		V
V _{(BR)CEO*}	Collector-Emitter Breakdown Voltage (I _B = 0)	Ic = -10 mA	-60	b		V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage (Ic = 0)	ΙΕ = -10 μΑ	-5			V
$V_{\text{CE}(\text{sat})^{\ast}}$	Collector-Emitter Saturation Voltage				-0.4 -1.6	V V
V _{BE(sat)} *	Base-Emitter Saturation Voltage	$ I_{C} = -150 \text{ mA} \qquad I_{B} = -15 \text{ mA} \\ I_{C} = -500 \text{ mA} \qquad I_{B} = -50 \text{ mA} $			-1.3 -2.6	V V
hfe*	DC Current Gain	$ \begin{array}{llllllllllllllllllllllllllllllllllll$	75 100 100 100 50		300	
fT	Transition Frequency	V _{CE} = -20 V f = 100 MHz I _C = -50 mA	200			MHz
Сево	Emitter-Base Capacitance	$I_{C} = 0$ $V_{EB} = -2 V$ $f = 1MHz$			30	pF
Ссво	Collector-Base Capacitance	$I_{E} = 0 \qquad V_{CB} = -10 V f = 1MHz$			8	pF
t _{d**}	Delay Time	$V_{CC} = -30 \text{ V}$ I _C = -150 mA I _{B1} = -15 mA			10	ns
tr**	Rise Time	$V_{CC} = -30 \text{ V}$ I _C = -150 mA I _{B1} = -15 mA			40	ns
ts**	Storage Time	$V_{CC} = -6 V$ $I_C = -150 mA$ $I_{B1} = -I_{B2} = -15 mA$			80	ns
t _f **	Fall Time	$V_{CC} = -6 V$ $I_C = -150 mA$ $I_{B1} = -I_{B2} = -15 mA$			30	ns
t _{on} **	Turn-on Time	$V_{CC} = -30 \text{ V}$ $I_{C} = -150 \text{ mA}$ $I_{B1} = -15 \text{ mA}$			45	ns
t _{off} **	Turn-off Time	$V_{CC} = -6 V$ $I_{C} = -150 mA$ $I_{B1} = -I_{B2} = -15 mA$			100	ns

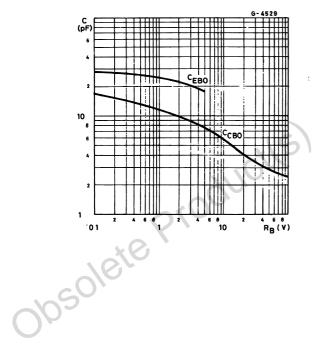
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* Pulsed: Pulse duration = $300 \ \mu s$, duty cycle $\le 1 \ \%$ ** See test circuit

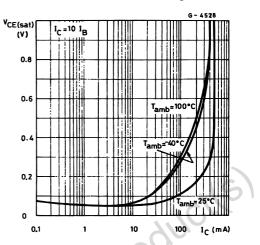
Normalized DC Current Gain.



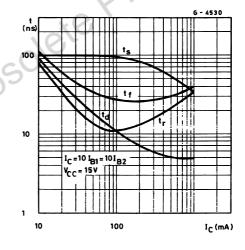
Collector Base and Emitter-base capacitances.



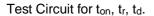
Collector Emitter Saturation Voltage.

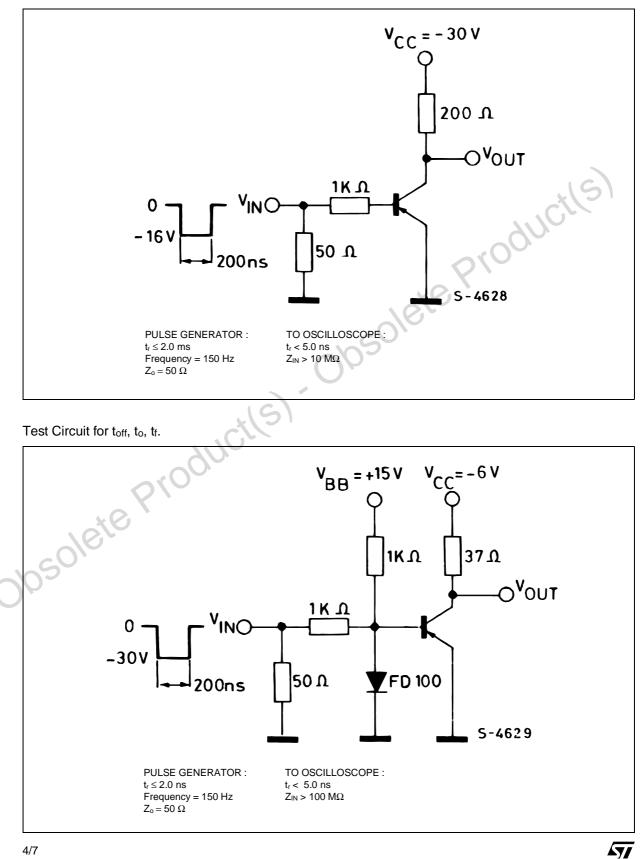






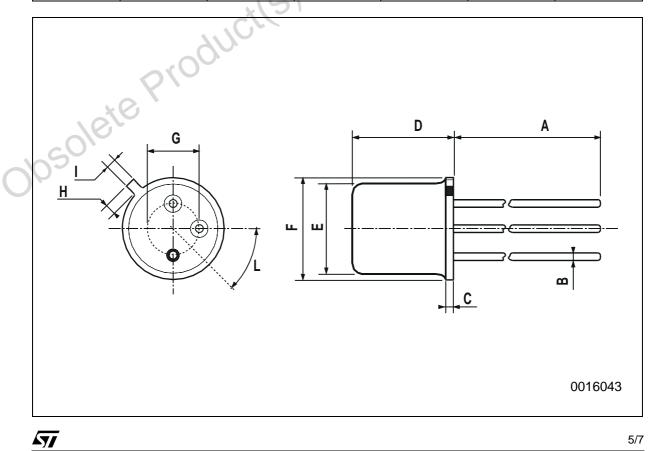
2N2905A/2N2907A





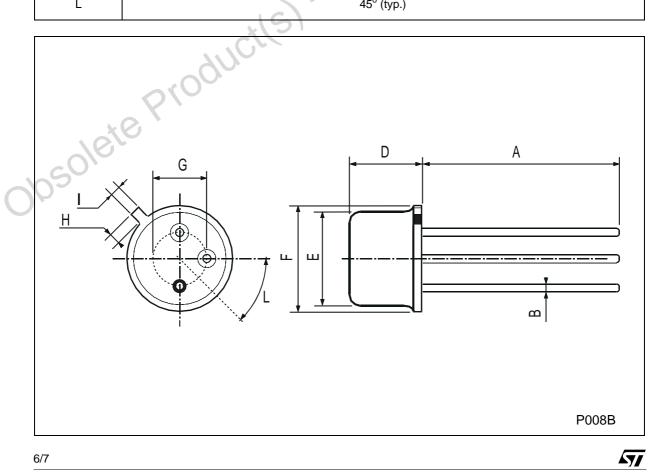
DIM.	mm			inch			
	MIN.	TYP.	MAX.	MIN.	TYP.	MAX.	
А		12.7			0.500		
В			0.49			0.019	
D			5.3			0.208	
E			4.9		20	0.193	
F			5.8		260	0.228	
G	2.54			0.100			
н			1.2	016		0.047	
I			1.16)		0.045	
L	45°			45 [°]			





2N2905A/2N2907A

DIM.	mm			inch			
	MIN.	TYP.	MAX.	MIN.	TYP.	MAX.	
А	12.7			0.500			
В			0.49			0.019	
D			6.6			0.260	
E			8.5		20	0.334	
F			9.4		260	0.370	
G	5.08			0.200			
Н			1.2	0/61		0.047	
I			0.9			0.035	



TO-39 MECHANICAL DATA

obsolete Product(s)- Obsolete Product(s)

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