

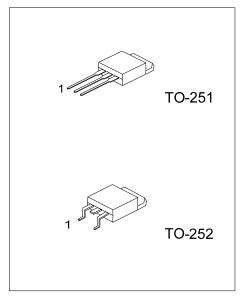
2SA1700

PNP EPITAXIAL SILICON TRANSISTOR

HIGH VOLTAGE DRIVER APPLICATION

FEATURES

- * High breakdown voltage.
- * Excellent h_{FE} linearity.



ORDERING INFORMATION

Ordering Number		Daakaga	Pin Assignment			Dealing
Lead Free	Halogen Free	Package 1 2 3		3	Packing	
2SA1700L-x-TM3-T	2SA1700G-x-TM3-T	TO-251	В	С	E	Tube
2SA1700L-x-TN3-R	2SA1700G-x-TN3-R	TO-252	В	С	Е	Tape Reel
2SA1700L-x-TN3-T	2SA1700G-x-TN3-T	TO-252	В	С	Е	Tube
Note: Pin Assignment: B: Base	e C: Collector E: Emitter					
2SA1700L-x-TM3-T	(1) T: Tube, R: 1 (2) TM3: TO-25 (3) x: refer to Cla (4) G: Halogen I	1, TN3: ⁻ assificat	TO-252 ion of h _f	-		

■ ABSOLUTE MAXIMUM RATING (T_A=25°C)

PARAMETER	SYMBOL	RATINGS	
Collector-Base Voltage	V _{CBO}	-400	
Collector-Emitter Voltage	V _{CEO}	-400	
Emitter-Base Voltage	V _{EBO}	-5	
Collector Current	Ιc	-200	
Collector Current (PULSE)	I _{CP}	-400	
		1	W
Power Dissipation	PD	10 (T _C =25℃)	W
Junction Temperature	TJ	150 °C	
Storage Temperature	T _{STG}	-55 ~ +150 °C	

Note 1. Absolute maximum ratings are those values beyond which the device could be permanently damaged. Absolute maximum ratings are stress ratings only and functional device operation is not implied.

■ ELECTRICAL CHARACTERISTICS (T_A=25°C, unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector-Base Breakdown Voltage	BV _{CBO}	I _C = -10μA, I _E =0	-400			V
Collector-Emitter Breakdown Voltage	BV _{CEO}	I _C = -1mA, I _B =0, R _{BE} =∞	-400			V
Emitter-Base Breakdown Voltage	BV_{EBO}	I _E = -10μA, I _C =0	-5			V
Collector Cutoff Current	I _{CBO}	V _{CB} = -300V, I _E =0			-0.1	μA
Emitter Cutoff Current	I _{EBO}	V_{EB} = -4V, I _C =0			-0.1	μA
DC Current Transfer Ratio	h _{FE}	V _{CE} = -10V, I _C = -50mA	60		200	
Collector-Emitter Saturation Voltage	V _{CE(SAT)}	I _C = -50mA, I _B = -5mA			-0.8	V
Base-Emitter Saturation Voltage	V _{BE(SAT)}	I _C = -50mA, I _B = -5mA			-1.0	V
Output Capacitance	C _{OB}	V _{CB} = -30V, f=1MHz		5		pF
Reverse Transfer Capacitance	C _{RE}	V _{CB} = -30V, f=1MHz		4		pF
Gain-Bandwidth Product	f⊤	V _{CE} = -30V, I _C = -10mA		70		MHz
Turn-on Time	t _{on}	See test circuit		0.25		μS
Turn-off Time	t _{OFF}	See test circuit		5		μS

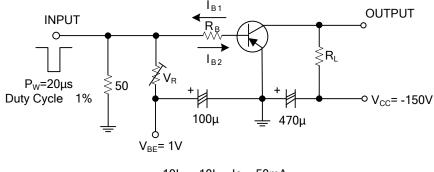


2SA1700

■ CLASSIFICATION OF h_{FE}

RANK	D	E
RANGE	60-120	100-200

■ TEST CIRCUIT (Unit : (resistance : Ω, capacitance : F))



-10I_{B1}= 10I_{B2}=Ic= -50mA R_L=3k\Omega, R_B=200\Omega at Ic= -50mA

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