

isc Silicon NPN Power Transistor

2SC1905

:V _{(BR)CE} • 100% a • Minimu	PTION or-Emitter Breakdown Voltage- o= 300(V)(Min.) avalanche tested m Lot-to-Lot variations for robust de nance and reliable operation	PIN 1. BASE 2.COLLECTOR 3.BMITTER 1 2 3 TO-220C package		
_	TIONS ed for color TV horizontal deflection TE MAXIMUM RATINGS(Ta=25°C)			
SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	300	V	
V _{CEO}	Collector-Emitter Voltage	300	V	¢ 📄
V _{EBO}	Emitter-Base Voltage	7.5	V	mm DIM MIN MAX A 15.50 15.90
Ic	Collector Current-Continuous	0.2	А	B 9.80 10.20 C 4.20 4.50 D 0.70 0.90 F 3.40 3.70
Pc	Total Power Dissipation @ T _C =25℃	15	w	F 3.40 3.70 G 4.98 5.18 H 2.68 2.90 J 0.44 0.60
TJ	Junction Temperature	150	°C	K 12.80 13.40 L 1.20 1.45 Q 2.70 2.90
T _{stg}	Storage Temperature Range	-55~150	°C	R 2.30 2.70 S 1.29 1.35 U 6.45 6.65 V 8.66 8.86



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ELECTRICAL CHARACTERISTICS

$T_c=25^{\circ}C$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	МАХ	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 30mA; I _B = 0	300			V
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = 50mA; I _B = 5mA			1.0	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 200V; I _E = 0			2	uA
І _{ЕВО}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0			2	uA
h _{FE}	DC Current Gain	I _C = 10mA; V _{CE} = 10V	40		250	
fT	Current-Gain—Bandwidth Product	I _E = 10mA; V _{CE} = 30V		50		MHz



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