

isc Silicon NPN Power Transistor

2SC1986

 Collector :V_{(BR)CE} 100% a Minimute 	PTION NPN tripe diffused mesa or-Emitter Breakdown Voltage- to= 80(V)(Min.) avalanche tested im Lot-to-Lot variations for robust d nance and reliable operation	evice		PIN 1. BASE 2. COLLECTO 3. BMITTER 1 2 3 TO-220C pa
	ATIONS al and industrial purpose TTE MAXIMUM RATINGS(Ta=25℃)			
SYMBOL	PARAMETER	VALUE	UNIT	K H H H H H H H H H H H H H H H H H H H
V _{CBO}	Collector-Base Voltage	100	v	
V _{CEO}	Collector-Emitter Voltage	80	v	
V _{EBO}	Emitter-Base Voltage	6	v	MIN MAX A 15.50 15.90 B 9.80 10.20
lc	Collector Current-Continuous	6	A	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℃	40	w	G 4.98 5.18 H 2.68 2.90 J 0.44 0.60 K 12.80 13.40
т		450	°C	L 1.20 1.45 Q 2.70 2.90
TJ	Junction Temperature	150		R 2.30 2.70 S 1.29 1.35



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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 = 25mA; I _B = 0	80			V
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = 3A; I _B = 300mA			1.0	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 100V; I _E = 0			1	mA
І _{ЕВО}	Emitter Cutoff Current	V _{EB} = 6V; I _C = 0			1	mA
h _{FE}	DC Current Gain	I _C = 1A; V _{CE} = 4V	40			
fT	Current-Gain—Bandwidth Product	I _E = 500mA; V _{CE} = 12V		10		MHz



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