



isc Silicon NPN Power Transistor

DESCRIPTION

- Collector-Emitter Breakdown Voltage-
 - : V_{(BR)CEO}= 120V(Min)
- · Collector Power Dissipation-
 - : P_C= 40W(Max)@ T_C= 25 °C
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

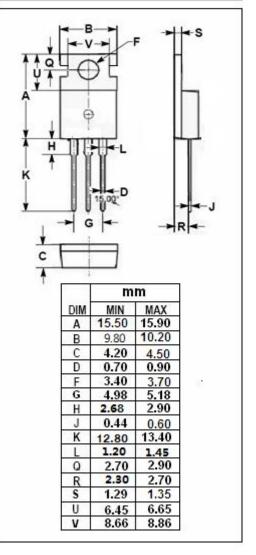
PIN 1. BASE 2.COLLECTOR 3. BMITTER 1 2 3 TO-220C package

APPLICATIONS

• Designed for B/W TV horizontal deflection output applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	300	V
V _{CEO}	Collector-Emitter Voltage	120	V
V _{EBO}	Emitter-Base Voltage	8	V
Ic	Collector Current-Continuous	6	А
Pc	Collector Power Dissipation @ Tc=25℃	40	W
TJ	Junction Temperature	150	$^{\circ}$
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$





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2SD363

ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 20mA; I _B = 0	120			V
V _{(BR)CBO}	Collector-Base Breakdown Voltage	Ic= 1mA; I _E = 0	300			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = 1mA; I _C = 0	8			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 1A; I _B = 0.1A			1.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 1A; I _B = 0.1A			1.5	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 250V; I _E = 0			1.0	mA
h _{FE}	DC Current Gain	I _C = 1A; V _{CE} = 5V	40		240	
f _T	Current-Gain—Bandwidth Product	I _C = 0.5A; V _{CE} = 5V		10		MHz

♦ h_{FE} Classifications

R	0	Y
40-80	70-140	120-240

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