



isc Silicon NPN Power Transistor

DESCRIPTION

- · Collector-Emitter Breakdown Voltage-
 - : V_{(BR)CEO}= 70V(Min)
- · Collector Power Dissipation-
 - : P_C= 40W(Max)@ T_C= 25°C
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

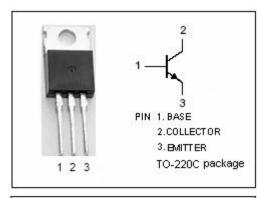
APPLICATIONS

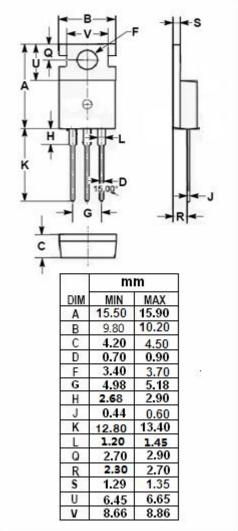
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• Designed for B/W TV horizontal deflection output applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	150	V
V _{CEO}	Collector-Emitter Voltage	70	V
V _{EBO}	Emitter-Base Voltage	8	V
lc	Collector Current-Continuous	5	А
Pc	Collector Power Dissipation @ Tc=25℃	40	W
TJ	T _J Junction Temperature		$^{\circ}\!$
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$ C







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2SD362

ELECTRICAL CHARACTERISTICS

Tc=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 2mA; R _{BE} = ∞	70			V
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage	I _C = 1mA; I _E = 0	150			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 = 5A; I _B = 0.5A			1.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 5A; I _B = 0.5A			1.5	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 100V; I _E = 0			20	μА
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0			20	μА
h _{FE}	DC Current Gain	I _C = 5A; V _{CE} = 5V	20		140	
f⊤	Current-Gain—Bandwidth Product	I _C = 0.5A; V _{CE} = 5V		10		MHz

♦ h_{FE} Classifications

N	R	0
20-50	40-80	70-140

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