

isc Silicon PNP Power Transistor

DESCRIPTION

- · DC Current Gain -
 - : $h_{FE} = 30(Min.)@ I_{C} = -3A$
- · Collector-Emitter Breakdown Voltage-
 - : V_{(BR)CEO}= -45V(Min.)
- Complement to Type BD301
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



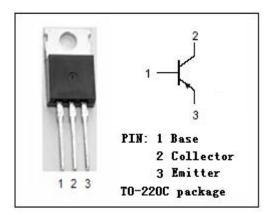
 Designed for audio output stages up to 25W, vertical deflection circuits in color TV receivers.

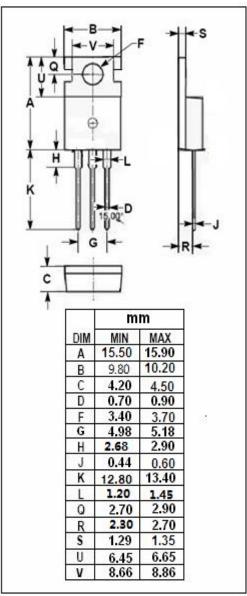
ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	-60	V
Vceo	Collector-Emitter Voltage	-45	V
V_{EBO}	Emitter-Base Voltage	nitter-Base Voltage -5	
Ic	Collector Current-Continuous	-8	А
Ісм	Collector Current-Peak	-12	А
l _Β	Base Current-Continuous	-2	Α
Pc	Collector Power Dissipation @ T _C =25°C	55	W
TJ	Junction Temperature	150	$^{\circ}$
T _{stg}	Storage Temperature Range	-65~150	$^{\circ}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	2.3	°C/W







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BD302

ELECTRICAL CHARACTERISTICS

Tc=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = -30mA; I _B = 0	-45		V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -3A; I _B = -0.3A		-1.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = -3A; I _B = -0.3A		-1.5	٧
I _{CEO}	Collector Cutoff Current	V _{CE} = -30V; I _B = 0		-1.0	mA
I _{CBO}	Collector Cutoff Current	V _{CB} = -40V; I _E = 0; T _C = 150 ℃		-1.0	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = -5V; I _C = 0		-5.0	mA
h _{FE}	DC Current Gain	I _C = -3A; V _{CE} = -2V	30		
f⊤	Current-Gain—Bandwidth Product	I _C = -0.3A; V _{CE} = -3V	3		MHz

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