

isc Silicon NPN Power Transistor

BU706D

DESCRIPTION

- · Collector-Emitter Sustaining Voltage-
 - : $V_{CEO(SUS)} = 700V(Min)$
- · High Switching Speed
- Built-in Integrated Diode
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

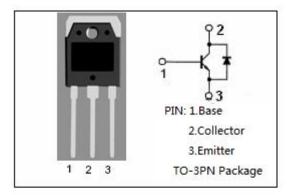
 Designed for use in horizontal deflection circuits of color TV receivers and line operated switch-mode applications

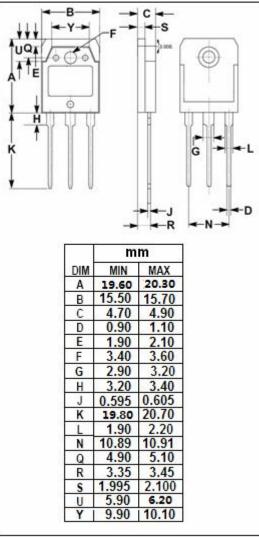
ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CES}	Collector- Emitter Voltage V _{BE} =0	1500	V
VCEO	Collector-Emitter Voltage	700	V
V _{EBO}	Emitter-Base Voltage	6	V
Ic	Collector Current-Continuous	5	Α
I _{CM}	Collector Current-Peak	8	А
I _B	Base Current-Continuous	3	Α
I _{BM}	Base Current-Peak	5	Α
Pc	Collector Power Dissipation @ T _C =25 °C	100	W
TJ	Junction Temperature	150	$^{\circ}\!$
T _{stg}	Storage Temperature Range	-65~150	$^{\circ}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER		UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	1.25	°C/W







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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C = 50mA ;I _B = 0	700			V
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = 3A; I _B = 1.33A			5.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	Ic= 3A; I _B = 1.33A			1.3	V
I _{CES}	Collector Cutoff Current	V _{CE} = V _{CESmax} ; V _{BE} = 0 V _{CE} = V _{CESmax} ; V _{BE} = 0; T _J = 125 °C			0.5 1.0	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 6V; I _C =0			10	mA
h _{FE}	DC Current Gain	Ic= 0.1A; VcE= 5V	6		30	
V _{ECF}	C-E Diode Forward Voltage	I _F = 3A		1.5	2.2	V
I _{S/B}	Second Breakdown Current	V_{CE} = 300V; t_p = 200 μ s	1.0			А

NOTICE:

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