

isc Silicon NPN Power Transistor

DESCRIPTION

- · Collector-Emitter Breakdown Voltage-
 - : V_{(BR)CEO}= 150V(Min.)
- · Low Collector Saturation Voltage-
 - : V_{CE(sat)}= 2.5V(Max.)@ I_C= 7A
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



APPLICATIONS

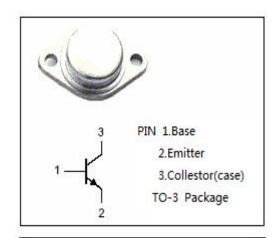
 Designed for use in horizontal deflexion output stage of B/W TV receivers.

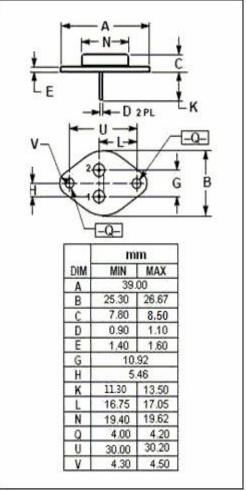
ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	400	V
V_{CEO}	Collector-Emitter Voltage	150	٧
V _{CEX}	Collector-Emitter Voltage V _{BE} = -5V	400	V
V _{EBO}	Emitter-Base Voltage	10	V
Ic	Collector Current-Continuous	7	Α
I _{CM}	Collector Current-Peak Repetitive	15	Α
l _Β	Base Current-Continuous	3	Α
Pc	Collector Power Dissipation @ T _C = 25 °C 85		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	2.0	°C/W







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BU104

ELECTRICAL CHARACTERISTICS

T_C=25°C unless otherwise specified

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SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _(BR) CEO	Collector-Emitter Breakdown Voltage	I _C = 50mA; I _B = 0	150			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 7A; I _B = 1A			2.5	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 7A; I _B = 1A			2.5	V
Ісво	Collector Cutoff Current	V _{CB} = 250V; I _E = 0			0.5	mA
I _{CEX}	Collector Cutoff Current	V _{CE} = 400V; V _{BE} = -5V			1.0	mA
ІЕВО	Emitter Cutoff Current	V _{EB} = 10V; I _C = 0			10	mA
h _{FE}	DC Current Gain	I _C = 5A; V _{CE} = 1.75V	10		50	
f⊤	Current-Gain—Bandwidth Product	I _C = 0.5A; V _{CE} = 10V		10		MHz

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