

isc Silicon NPN Power Transistor

3DD201

DESCRIPTION

- · Collector-Emitter Breakdown Voltage-
- : V_{(BR)CEO}= 150V(Min.)
- DC Current Gain-
 - : h_{FE}= 40~120(Min.)@I_C= 2A
- · Collector-Emitter Saturation Voltage-
 - : V_{CE(sat)}= 1.5V(Max)@ I_C= 5A
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

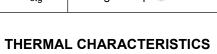


APPLICATIONS

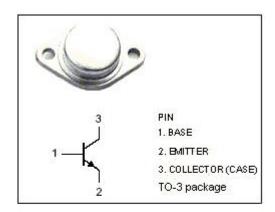
· Designed for TV horizontal output applications.

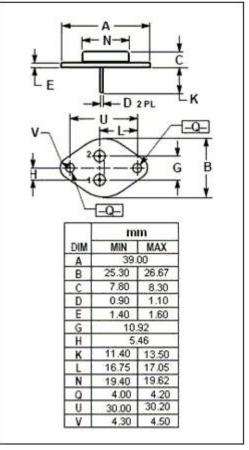
ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	350	V
V _{CEO}	Collector-Emitter Voltage	150	V
V _{EBO}	Emitter-Base Voltage 6		V
Ic	Collector Current-Continuous	8	А
Pc	Collector Power Dissipation@T _C =25 °C		W
TJ	T _J Junction Temperature 15		$^{\circ}$
T _{stg}	Storage Temperature	-55~150	$^{\circ}$



SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance,Junction to Case	1.5	°C/W







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ELECTRICAL CHARACTERISTICS

T_c=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 50mA; I _B = 0	150		V
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage	I _C = 1mA; I _E = 0	350		V
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage	I _E = 1mA; I _C = 0	6		V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	Ic= 5A; I _B = 0.5A		1.5	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} = 350V; I _E = 0		0.5	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 6V; I _C = 0		0.1	mA
h _{FE}	DC Current Gain	I _C = 2A; V _{CE} = 10V	40	120	



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