

ISC Silicon NPN Power Transistor

3DD301D

DESCRIPTION

- · Collector-Emitter Breakdown Voltage-
 - : V_{(BR)CEO}= 150V(Min)
- · Collector-Emitter Saturation Voltage-
 - : V_{CE(sat)}= 1.5V(Max) @I_C= 3A
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

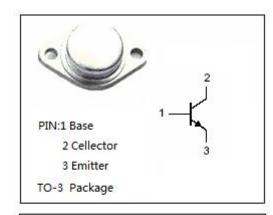
• Designed for B/W TV vertical output applications.

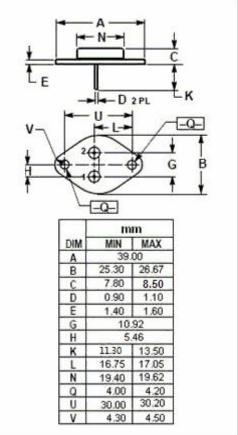
ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	300	V
V_{CEO}	Collector-Emitter Voltage	150	V
V_{EBO}	Emitter-Base Voltage	6	V
Ic	Collector Current-Continuous	5	А
Pc	Collector Power Dissipation @ T _C =25℃	30	W
Тл	Junction Temperature 150		$^{\circ}$ C
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance,Junction to Case	2.5	°C/W







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ELECTRICAL CHARACTERISTICS

T_c=25℃ unless otherwise specified

	10-20 C unless otherwise specified									
SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT				
V _(BR) CEO	Collector-Emitter Breakdown Voltage	I _C = 5mA; I _B = 0	150			V				
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = 1mA; I _C = 0	6			V				
V _{(BR)CBO}	Collector-Base Breakdown Voltage	I _C = 5mA; I _E = 0	300			V				
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 3A; I _B = 0.3A			1.5	V				
Ісво	Collector Cutoff Current	V _{CB} = 50V; I _E = 0			0.1	mA				
leво	Emitter Cutoff Current	V _{EB} = 6V; I _C = 0			0.1	mA				
h _{FE}	DC Current Gain	I _C = 3A; V _{CE} = 5V	30		120					
t _f	Fall Time	I _C = 3A; I _{B1} = 0.2A; I _{B2} = -0.3A			1	μ S				



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