



isc Silicon NPN Power Transistor

DESCRIPTION

- With TO-66 Package
- · Low collector saturation voltage
- Minimum Lot-to-Lot variations for robust device performance and reliable operation.

APPLICATIONS

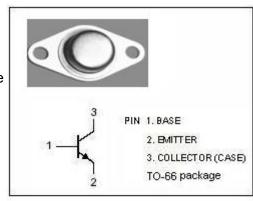
 Designed for use in lined-operated color TV chroma output circuits and sound output circuits

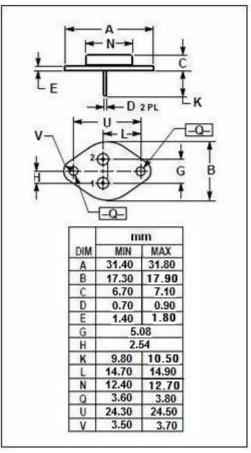
ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	750	V
V _{CEO}	Collector-Emitter Voltage	750	V
V _{EBO}	Emitter-Base Voltage	5	V
Ic	Collector Current-Continuous	2	Α
Pc	Collector Power Dissipation @ Tc=25°C	23	W
TJ	Junction Temperature	-65~200	$^{\circ}$ C
T _{stg}	Storage Temperature Range	-65~200	$^{\circ}$ C

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	7.6	°C/W







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2SC1316

ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 1A; I _B = 0.2A		3.0	V
$V_{BE(sat)}$	Base-Emitter Saturation Voltage	I _C = 1A; I _B = 0.2A		1.2	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 750V;I _B = 0		100	uA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C =0		100	uA
h _{FE}	DC Current Gain	I _C = 2A; V _{CE} = 3V	4	14	
f⊤	Current-Gain—Bandwidth Product	I _C = 0.5A; V _{CE} =10V, f _{test} = 1.0MHz	8.5		MHz



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