

isc Silicon NPN Power Transistor

2SC1368

DESCRIPTION

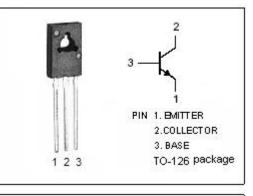
- High Collector Current I_C = 1.5A
- Collector-Emitter Breakdown Voltage-
- : V_{(BR)CEO}= 25V(Min)
- Good Linearity of h_{FE}
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

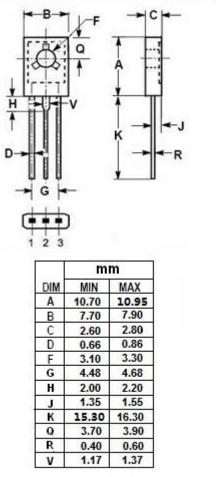
APPLICATIONS

• Designed for low frequency power amplifier applications.

SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	25	V	
V _{CEO}	Collector-Emitter Voltage	25	V	
V _{EBO}	Emitter-Base Voltage	5	V	
lc	Collector Current-Continuous	1.5	А	
Pc	Collector Power Dissipation @ $T_C=25^{\circ}C$	8	w	
	Collector Power Dissipation @ T _a =25℃	0.75		
ТJ	Junction Temperature	150	°C	
T _{stg}	Storage Temperature Range	-55~150	°C	

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)







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ELECTRICAL CHARACTERISTICS

$T_c=25^{\circ}C$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	МАХ	UNIT
V _{(BR)CBO}	Collector-Base Breakdown Voltage	I _C = 1mA ; I _E = 0	25			V
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I_{C} = 10mA ; R_{BE} = ∞	25			V
V _{(BR)EBO}	Emitter-Base Breakdown Vltage	I _E = 1mA ; I _C = 0	5			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 1.5A; I _B = 0.15A			0.8	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 25V; I _E = 0			1.0	μA
hfe	DC Current Gain	Ic= 500mA ; Vce= 2V	60		320	
f _T	Current-Gain—Bandwidth Product	I _C = 500mA ; V _{CE} = 5V		180		MHz

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