

isc Silicon NPN Power Transistor

2SC1516

DESCRIPTION

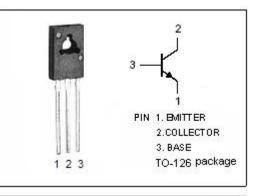
- High Collector Current I_C= 1.5A
- Collector-Emitter Breakdown Voltage-
- : V_{(BR)CEO}= 35V(Min)
- · Good Linearity of hFE
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

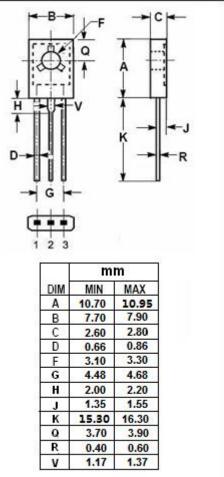
APPLICATIONS

• Designed for low frequency power amplifier applications.

SYMBOL	PARAMETER VALUE		UNIT	
V _{CBO}	Collector-Base Voltage 35		V	
V _{CEO}	Collector-Emitter Voltage 35		V	
V_{EBO}	Emitter-Base Voltage 5		V	
lc	Collector Current-Continuous 1.5		A	
Pc	Collector Power Dissipation @ $T_c=25^{\circ}C$	1		
	Collector Power Dissipation @ T _a =25℃	10	W	
TJ	Junction Temperature 150 °C			
T _{stg} Storage Temperature Range -55~150		°C		

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)





isc website: www.iscsemi.com



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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	35			V
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I_{C} = 10mA; R_{BE} = ∞	35			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 = 1.0A; I _B = 0.1A			2.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 1.0A; I _B = 0.1A			1.5	V
Ісво	Collector Cutoff Current	V _{CB} = 35V; I _E = 0			100	μA
h _{FE}	DC Current Gain	I _C = 500mA ; V _{CE} = 2V	60		200	
f _T	Current-Gain—Bandwidth Product	I _C = 200mA ; V _{CE} = 5V		110		MHz

h_{FE} Classifications

В	с			
60-120	100-200			

NOTICE:

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