2SC1449





isc Silicon NPN Power Transistor

DESCRIPTION

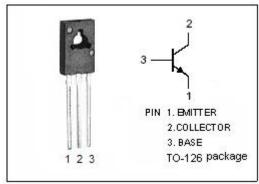
- High Collector Current I_C= 2.0A
- · Collector-Emitter Breakdown Voltage-
 - : V_{(BR)CEO}= 35V(Min)
- Good Linearity of h_{FE}
- 100% avalanche tested
- · Minimum Lot-to-Lot variations for robust device performance and reliable operation

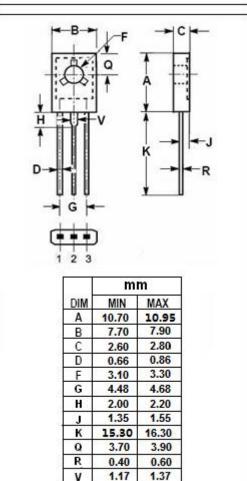


• Designed for low frequency power amplifier applications.



SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	40	V	
V _{CEO}	Collector-Emitter Voltage	35	V	
V _{EBO}	Emitter-Base Voltage	5	V	
Ic	Collector Current-Continuous	2.0	А	
P _C	Collector Power Dissipation @ T_C =25 $^{\circ}$ C	1	W	
	Collector Power Dissipation @ T _a =25℃	10		
TJ	Junction Temperature	150	$^{\circ}$	
T _{stg}	Storage Temperature Range	-55~150	${\mathbb C}$	







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ELECTRICAL CHARACTERISTICS

 $T_C=25$ °C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CBO}	Collector-Base Breakdown Voltage	I _C = 1mA ; I _E = 0	40			V
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I_{C} = 10mA; R_{BE} = ∞	35			V
V _{(BR)EBO}	Emitter-Base Breakdown VItage	I _E = 1mA ; I _C = 0	5			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 0.5A; I _B = 0.05A			0.7	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 0.5A; I _B = 0.05A			1.5	V
Ісво	Collector Cutoff Current	V _{CB} = 40V; I _E = 0			100	μ A
h _{FE}	DC Current Gain	I _C = 300mA ; V _{CE} = 2V	40		250	
f⊤	Current-Gain—Bandwidth Product	I _C = 100mA ; V _{CE} = 5V		55		MHz



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