

isc Silicon PNP Power Transistor

BD227/229/231

DESCRIPTION

- DC Current Gain-
 - : h_{FE}= 40(Min)@ I_C= -0.15A
- Complement to Type BD226/228/230
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

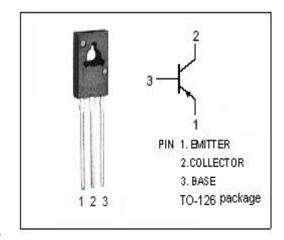
• Designed for use in driver stages in television circuits.

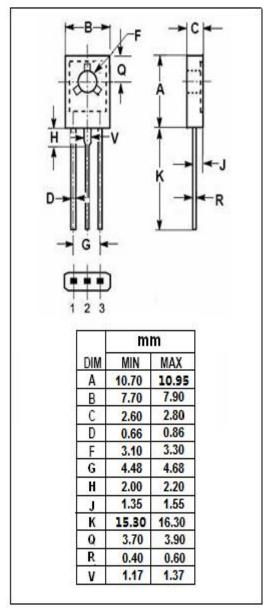
ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT		
Vсво		BD227	-45	V	
	Collector-Base Voltage	BD229	-60		
		BD231	-100		
VcEo		BD227	-45	V	
	Collector-Emitter Voltage	BD229	-60		
		BD231	-80		
V _{CER}	Collector-Emitter Voltage(R_{BE} = 1k Ω)	BD227	-45	V	
		BD229	-60		
		BD231	-100		
V _{EBO}	Emitter-Base Voltage	-5	V		
Ic	Collector Current-Continuo	-1.5	Α		
I _{CM}	Collector Current-Peak	-3.0	Α		
Pc	Collector Power Dissipatio @ T _c ≤62°C	12.5	W		
TJ	Junction Temperature	150	$^{\circ}$		
T _{stg}	Storage Temperature Ran	-65~150	$^{\circ}$		

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	7	°C/W
R _{th j-a}	Thermal Resistance, Junction to Ambient	100	°C/W







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ELECTRICAL CHARACTERISTICS

Tc=25℃ unless otherwise specified

SYMBOL	PARAMETER		CONDITIONS	MIN	TYP.	MAX	UNIT
Vceo(sus)	Collector-Emitter Sustaining Voltage	BD227		-45			
		BD229	I _C = -50mA ; I _B = 0	-60			V
		BD231		-80			
V _{CE(sat)}	Collector-Emitter Saturation Voltage		I _C = -1A; I _B = -0.1A			-0.8	V
$V_{\text{BE(on)}}$	Base-Emitter On Voltage		I _C = -1A; V _{CE} = -2V			-1.3	V
Ісво	Collector Cutoff Current		V _{CB} = -30V; I _E = 0 V _{CB} = -30V; I _E = 0,T _C = 125°C			-0.1 -10	μА
I _{EBO}	Emitter Cutoff Current		V _{EB} = -5V; I _C =0			-10	μА
h _{FE-1}	DC Current Gain		I _C = -1A; V _{CE} = -2V	25			
h _{FE-2}	DC Current Gain		I _C = -0.15A ; V _{CE} = -2V	40		250	
h _{FE-3}	DC Current Gain		I _C = -5mA ; V _{CE} = -2V	40			
f⊤	Current-Gain—Bandwidth Product		I _C = -50mA ; V _{CE} = -5V		50		MHz

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