

isc Silicon PNP Power Transistor

BD286

DESCRIPTION

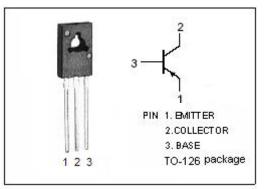
- Collector-Emitter Sustaining Voltage : V_{CEO(SUS)}= -45V(Min)
- Collector-Emitter Saturation Voltage-
- : V_{CE(sat})= -0.6V(Max)@ I_C = -2A
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

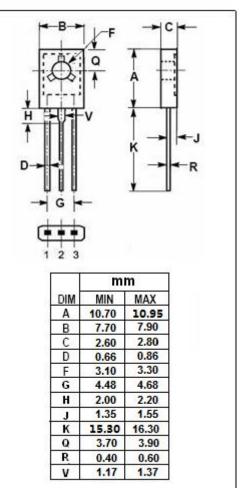
APPLICATIONS

• Designed for medium power linear and switching applications.

ADSOLUTE MAXIMUM RATINGS (Ta=25 C)						
SYMBOL	PARAMETER	VALUE	UNIT			
V _{CBO}	Collector-Base Voltage	-45	V			
V _{CEO}	Collector-Emitter Voltage	-45	V			
Vebo	Emitter-Base Voltage	-5	V			
lc	Collector Current-Continuous	-4	A			
Ісм	Collector Current-Pulse	-6	A			
I _B	Base Current-Continuous	-1	A			
Pc	Collector Power Dissipation @ Tc=25°C	36	W			
TJ	Junction Temperature	150	°C			
T _{stg}	Storage Temperature Range	-65~150	°C			

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)







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ELECTRICAL CHARACTERISTICS

Tc=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР.	мах	UNIT
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	Ic= -30mA; I _B = 0	-45			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -2A; I _B = -0.2A			-0.6	V
V _{BE(on)}	Base-Emitter On Voltage	I _C = -2A; V _{CE} = -1V			-1.2	V
I _{СВО}	Collector Cutoff Current	V _{CB} = -45V; I _E = 0			-100	μ Α
I _{CEO}	Collector Cutoff Current	V _{CE} = -45V; V _{BE} = 0			-500	μA
I _{EBO}	Emitter Cutoff Current	V _{EB} = -5V; I _C = 0			-100	μA
h _{FE-1}	DC Current Gain	I _C = -10mA; V _{CE} = -5V	30			
h _{FE-2}	DC Current Gain	I _C = -0.5A; V _{CE} = -1V	85			
h _{FE-3}	DC Current Gain	I _C = -2A; V _{CE} = -1V	40			
f⊤	Current-Gain—Bandwidth Product	I _C = -0.1A; V _{CE} = -5V	3			MHz

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