

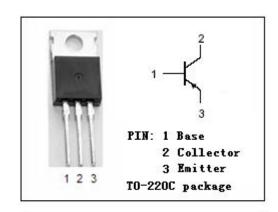
isc Silicon PNP Power Transistor

DESCRIPTION

- Wide Area of Safe Operation
- · Low Saturation Voltage-
- · High Power Dissipation
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

• Designed for use in series regulators and shunt regulators.

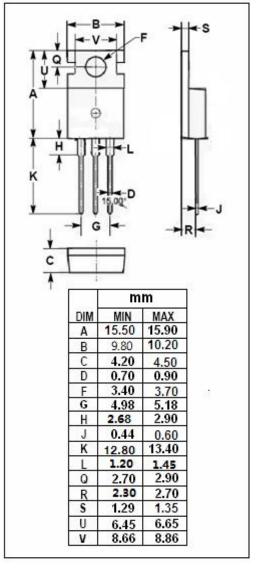


ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	-45	V
V _{CEO}	Collector-Emitter Voltage	-45	V
V _{EBO}	Emitter-Base Voltage	-4	V
Ic	Collector Current-Continuous	-7	А
lΒ	Base Current	-3	А
Pc	Collector Power Dissipation @ T _C =25°C	70	W
TJ	Junction Temperature	150	$^{\circ}$ C
T _{stg}	Storage Temperature Range	-65~150	°C

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	1.78	°C/W
R _{th j-a}	Thermal Resistance, Junction to Ambient	70	°C/W





isc Silicon PNP Power Transistor

BD277

ELECTRICAL CHARACTERISTICS

Tc=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = -30mA ;I _B = 0	-45		V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -1.75A; I _B = -0.1A		-0.5	V
V _{BE(on)}	Base-Emitter On Voltage	I _C = -1.75A ; V _{CE} = -2V		-1.2	V
І _{сво}	Collector Cutoff Current	V _{CB} = -45V; I _E = 0		-0.1	- mA
		V _{CB} = -40V; I _E = 0; T _C = 150°C		-2.0	
I _{CEO}	Collector Cutoff Current	V _{CE} = -30V; I _B = 0		-1.0	mA
ІЕВО	Emitter Cutoff Current	V _{EB} = -4V; I _C = 0		-1.0	mA
h _{FE}	DC Current Gain	I _C = -1.75A; V _{CE} = -2V	30	150	
f⊤	Current-Gain—Bandwidth Product	I _C = -0.5A; V _{CE} = -4V	10		MHz

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