

isc Silicon NPN Power Transistor

2SD297

DESCRIPTION

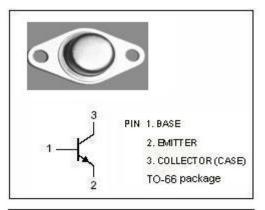
- Collector-Emitter Breakdown Voltage-: V_{(BR) CEO}= 80V(Min)
- · Collector Power Dissipation-
- : P_C= 25W @T_C= 25°C
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

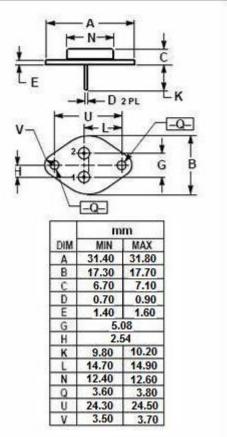
APPLICATIONS

• Designed for use in general purpose amplifier and switching applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	150	V
V _{CEO}	Collector-Emitter Voltage	80	V
V _{EBO}	Emitter-Base Voltage	7	V
Ι _C	Collector Current-Continuous	3	А
I _{CM}	Collector Current-Peak	5	А
I _B	Base Current	1	А
Pc	Collector Power Dissipation@Tc=25°C	;=25°C 25	
TJ	Junction Temperature	150	°C
T _{stg}	Storage Temperature	-65~150	°C





isc website: www.iscsemi.com



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ELECTRICAL CHARACTERISTICS

$T_{\text{C}}\text{=}25^{\circ}\!\!\!\mathrm{C}$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	МАХ	UNIT
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C = 30mA ; I _B = 0	80		V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 2A; I _B = 0.4A		2.0	V
V _{BE(on)}	Base-Emitter On Voltage	I _C = 2A; V _{CE} = 4V		1.8	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 150V; V _{EB} = 0		0.1	mA
I _{CEO}	Collector Cutoff Current	V _{CE} = 80V; I _B = 0		0.5	mA
І _{ЕВО}	Emitter Cutoff Current	V _{EB} = 6V; I _C = 0		10	uA
h _{FE-1}	DC Current Gain	I _C = 0.1A ; V _{CE} = 2V	60		
hfe-1	DC Current Gain	I _C = 2A ; V _{CE} = 2V	20		
fT	Current-Gain—Bandwidth Product	I _C = 0.1A ; V _{CE} = 10V	20		MHz

NOTICE:

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