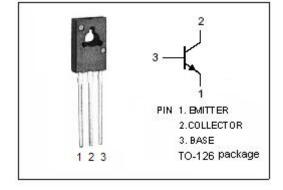


isc Silicon NPN Power Transistor

DESCRIPTION

- Collector-Emitter Voltage-:V_{CER}= 75V(Min);R_{BE}=150 Ω
- Collector Current-:I_C=1.5A
- Low Saturation Voltage
- : $V_{CE(sat)}$ =0.6V(MAX)@ I_c =0.5A
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

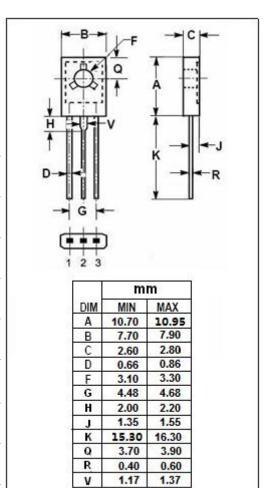


APPLICATIONS

· Power Amplifier Applications

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	75	V
V _{CER}	Collector-Emitter Voltage R _{BE} =150 Ω	75	V
V _{EBO}	Emitter-Base Voltage	6	V
Ic	Collector Current-Continuous	1.5	А
Pc	Collector Power Dissipation @ T _a =25℃	0.8	W
TJ	Junction Temperature	150	$^{\circ}$
T _{stg}	Storage Temperature Range	-55~150	°C





isc Silicon NPN Power Transistor

2SC2314

ELECTRICAL CHARACTERISTICS

 T_{C} =25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C =0.5A; I _B = 0.05A		0.2	0.6	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 40V ; I _E = 0			1	μА
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0			1	μ A
h _{FE}	DC Current Gain	I _C = 500mA ; V _{CE} = 5V	60		320	
f⊤	Current-Gain—Bandwidth Product	I _C = 50mA; V _{CE} = 0.5V	180			MHz

h_{FE} Classifications

D	E	F
60-120	100-200	160-320

Notice:

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