

ISC Silicon NPN Power Transistor

DESCRIPTION

- · Collector-Emitter Sustaining Voltage-
 - : V_{CEO(SUS)} = 250 V(Min)
- DC Current Gain-
 - : $h_{FE} = 40(Min) @ I_C = 20mA$
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

• Designed for high voltage and general purpose applications.

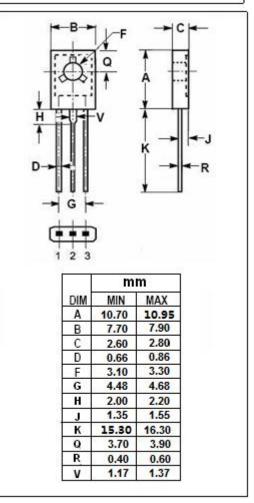
3 1 PIN 1. BMITTER 2.COLLECTOR 3. BASE 1 2 3 TO-126 package

ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	300	V
V _{CEO}	Emitter-Base Voltage		V
V _{EBO}			V
Ic			А
Pc	Collector Power Dissipation T_c =25 $^{\circ}$ C	15	W
Ti	Junction Temperature	150	$^{\circ}$
T _{stg}	Storage Temperature Range	-65~150	$^{\circ}$

THERMAL CHARACTERISTICS

	SYMBOL	DL PARAMETER		UNIT
R _{th j-c} T		Thermal Resistance,Junction to Case	6.25	°C/W





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2N3440

ELECTRICAL CHARACTERISTICS

 T_{C} =25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C = 1.0mA; I _B = 0	250		V
V _{(BR)CBO}	Collector-Base Breakdown Voltage	I _C = 1.0mA; I _E = 0	300		V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = 1.0mA; I _C = 0	7		V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 50mA ;I _B = 4mA		0.5	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 300V; I _E = 0		0.1	mA
ІЕВО	Emitter Cutoff Current	V _{EB} = 7V; I _C = 0		0.1	mA
h _{FE}	DC Current Gain	I _C = 20m A; V _{CE} = 10V	40	160	



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