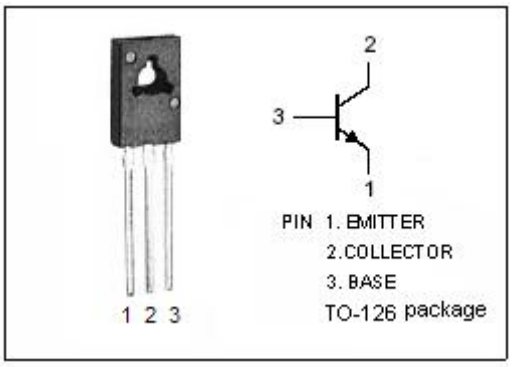
isc Silicon NPN Power Transistor KTC2800

DESCRIPTION

- High Collector-Emitter Breakdown Voltage
  V_{CEO}= 160V(Min)
- Complement to Type KTA1700
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

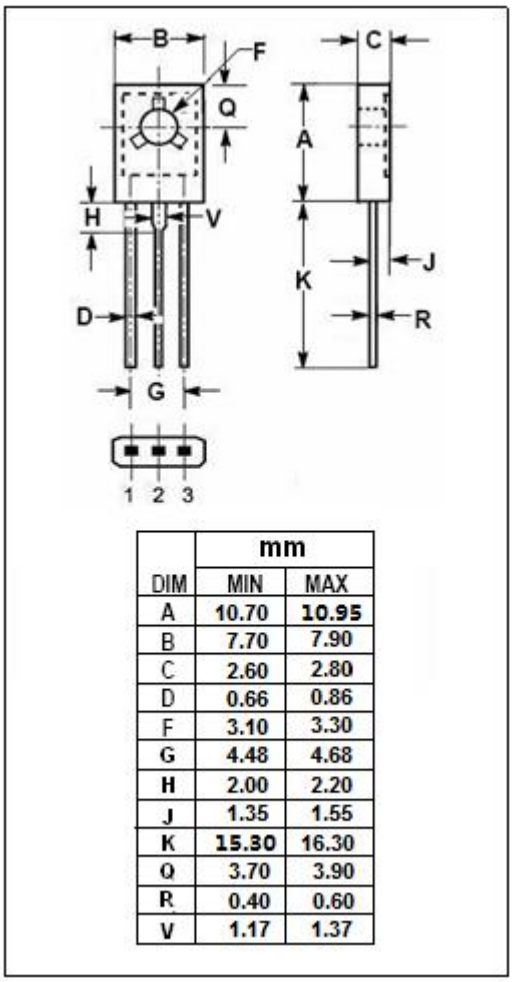


APPLICATIONS

- Designed for high voltage applications

ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	160	V
V_{CEO}	Collector-Emitter Voltage	160	V
V_{EBO}	Emitter-Base Voltage	5.0	V
I_C	Collector Current	1.5	A
I_B	Base Current	1.0	A
P_C	Collector Power Dissipation @T_a=25℃	1.5	W
	Collector Power Dissipation @T_C=25℃	10	
T_J	Junction Temperature	150	℃
T_{stg}	Storage Temperature	-55~150	℃



DIM	mm MIN	MAX
A	10.70	10.95
B	7.70	7.90
C	2.60	2.80
D	0.66	0.86
F	3.10	3.30
G	4.48	4.68
H	2.00	2.20
J	1.35	1.55
K	15.30	16.30
Q	3.70	3.90
R	0.40	0.60
V	1.17	1.37

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ELECTRICAL CHARACTERISTICS

Tj=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage	I_C= 10mA; I_B= 0	160			V
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage	I_E= 1mA; I_C= 0	5			V
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	I_C= 500mA; I_B= 50mA			1.5	V
$V_{BE(on)}$	Base-Emitter On Voltage	I_C= 500mA; V_{CE}= 5V			1.0	V
I_{CBO}	Collector Cutoff Current	V_{CB}= 160V ; I_E= 0			1.0	μA
I_{EBO}	Emitter Cutoff Current	V_{EB}= 5V; I_C=0			1.0	μA
h_{FE}	DC Current Gain	I_C= 100mA ; V_{CE}= 5V	70		240	
C_{OB}	Output Capacitance	I_E= 0 ; V_{CB}= 10V;f= 1.0MHz		25		pF
f_T	Current-Gain—Bandwidth Product	I_C= 100m A ; V_{CE}= 10V		100		MHz

◆ **h_{FE} Classifications**

O	Y
70-140	120-240

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