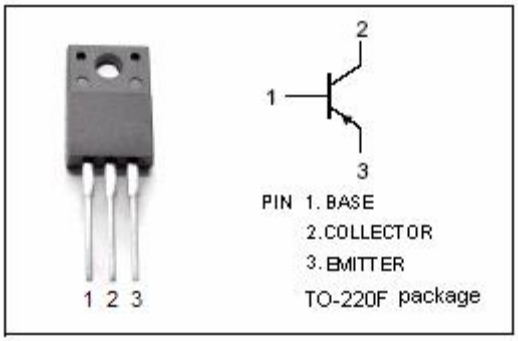
isc Silicon PNP Power Transistor 2SA2050



DESCRIPTION

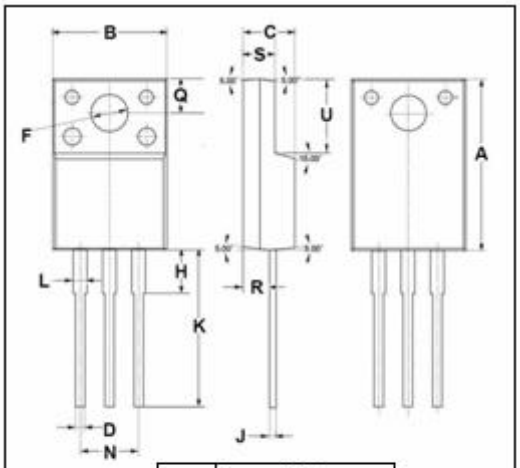
- High DC current amplifier rate
  h_{FE}:60-240@VCE=-5V,IC=-0.2A
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- General Purpose Switching and Amplification

ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	-180	V
V_{CEO}	Collector-Emitter Voltage	-160	V
V_{EBO}	Emitter-Base Voltage	-6	V
I_C	Collector Current-Continuous	-1.5	A
P_C	Total Power Dissipation @ Ta=25℃	1.5	W
T_J	Junction Temperature	150	℃
T_{stg}	Storage Temperature Range	-55~150	℃



DIM	mm MIN	mm MAX
A	14.95	15.05
B	10.00	10.10
C	4.40	4.60
D	0.75	0.90
F	3.10	3.30
H	3.70	3.90
J	0.50	0.70
K	13.4	13.6
L	1.10	1.30
N	5.00	5.20
Q	2.70	2.90
R	2.20	2.40
S	2.65	2.90
U	6.40	6.60

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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	I_C= -500mA; I_B= -50mA			-1.0	V
I_{CBO}	Collector Cutoff Current	V_{CB}= -60V; I_E= 0			-10	μA
I_{EBO}	Emitter Cutoff Current	V_{EB}=-6V; I_C=0			-10	μA
h_{FE1}	DC Current Gain	I_C= -0.2A; V_{CE}= -5V	60		240	
h_{FE2}	DC Current Gain	I_C= -1.5A; V_{CE}= -5V	50			
fT	Transition frequency	V_{CE}= -10V ,I_C= -0.05A	50			MHz

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