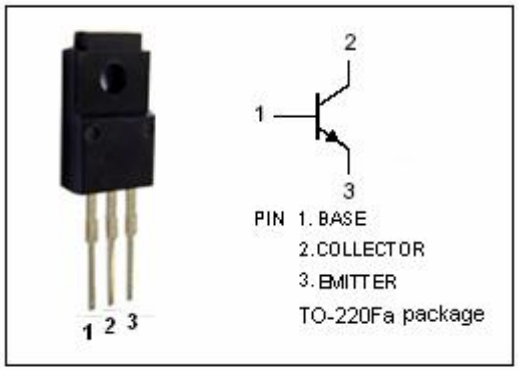
isc Silicon NPN Power Transistor — 2SD1264



DESCRIPTION

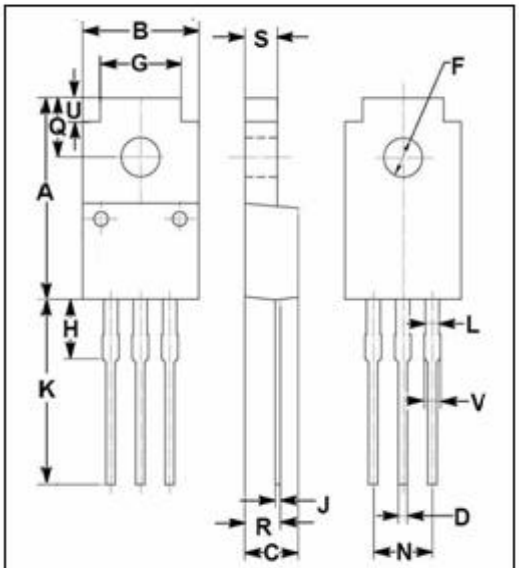
- Collector-Emitter Breakdown Voltage
  : $V_{(BR)CEO}$= 150V(Min)
- High Collector Power Dissipation
- Complement to Type 2SB940
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Designed for power amplifications and TV vertical deflection output applications.

ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	200	V
V_{CEO}	Collector-Emitter Voltage	150	V
V_{EBO}	Emitter-Base Voltage	6	V
I_C	Collector Current-Continuous	2	A
I_{CM}	Collector Current-Peak	3	A
P_C	Total Power Dissipation @ T_a=25℃	2	W
	Total Power Dissipation @ T_C=25℃	30	
T_J	Junction Temperature	150	℃
T_{stg}	Storage Temperature Range	-55~150	℃



DIM	mm MIN	MAX
A	16.85	17.15
B	9.54	10.10
C	4.35	4.65
D	0.75	0.90
F	3.20	3.40
G	6.90	7.20
H	5.15	5.45
J	0.45	0.75
K	13.35	13.65
L	1.10	1.30
N	4.98	5.18
Q	4.85	5.15
R	2.55	3.25
S	2.70	2.90
U	1.75	2.05
V	1.30	1.50

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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage	I_C= 5mA; I_B= 0	150			V
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage	I_C= 50 μ A; I_E= 0	200			V
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage	I_E= 100 μ A; I_C= 0	6			V
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	I_C= 0.5A; I_B= 50mA			1.0	V
$V_{BE(on)}$	Base-Emitter On Voltage	I_C= 0.4A; V_{CE}= 10V			1.0	V
I_{CBO}	Collector Cutoff Current	V_{CB}= 200V; I_E= 0			50	μ A
I_{EBO}	Emitter Cutoff Current	V_{EB}= 4V; I_C= 0			50	μ A
h_{FE-1}	DC Current Gain	I_C= 0.15A; V_{CE}= 10V	60		240	
h_{FE-2}	DC Current Gain	I_C= 0.4A; V_{CE}= 10V	50			
f_T	Current-Gain—Bandwidth Product	I_C= 0.5A; V_{CE}= 5V		20		MHz

◆ **h_{FE-1} Classifications**

Q	P
60-140	100-240

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