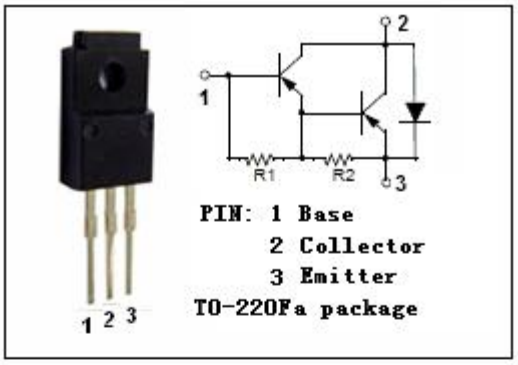
isc Silicon PNP Darlington Power Transistor 2SB1287

DESCRIPTION

- High DC Current Gain-
  :h_{FE} = 1000(Min)@ I_C= -1A
- Collector-Emitter Breakdown Voltage-
  :$V_{(BR)CEO}$ = -100V(Min)
- Low Collector-Emitter Saturation Voltage
  :$V_{CE(sat)}$ = -1.5V(Max)@ I_C= -1A
- Complement to Type 2SD1765
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

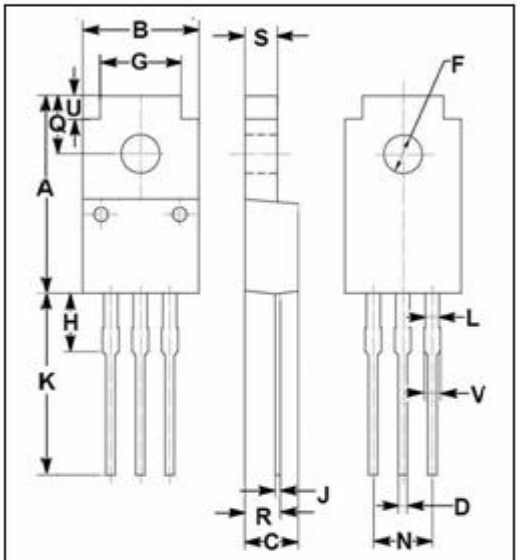


APPLICATIONS

- Designed for general purpose amplifier and low speed switching applications.

ABSOLUTE MAXIMUM RATINGS (Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	-100	V
V_{CEO}	Collector-Emitter Voltage	-100	V
V_{EBO}	Emitter-Base Voltage	-8	V
I_C	Collector Current-Continuous	-2	A
I_{CM}	Collector Current-Peak	-3	A
P_C	Collector Power Dissipation T_a=25℃	2	W
	Collector Power Dissipation T_C=25℃	20	
T_j	Junction Temperature	150	℃
T_{stg}	Storage Temperature Range	-55~150	℃



DIM	mm MIN	mm 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	-100			V
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage	I_C= -50 μ A, I_E= 0	-100			V
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	I_C= -1A; I_B= -1mA			-1.5	V
I_{CBO}	Collector Cutoff Current	V_{CB}= -100V; I_E= 0			-10	μ A
I_{EBO}	Emitter Cutoff Current	V_{EB}= -7V; I_C= 0			-3	mA
h_{FE}	DC Current Gain	I_C= -1A; V_{CE}= -2V	1000		10000	
C_{OB}	Output Capacitance	I_E= 0; V_{CB}= -10V; f= 1MHz		35		pF