

DESCRIPTION

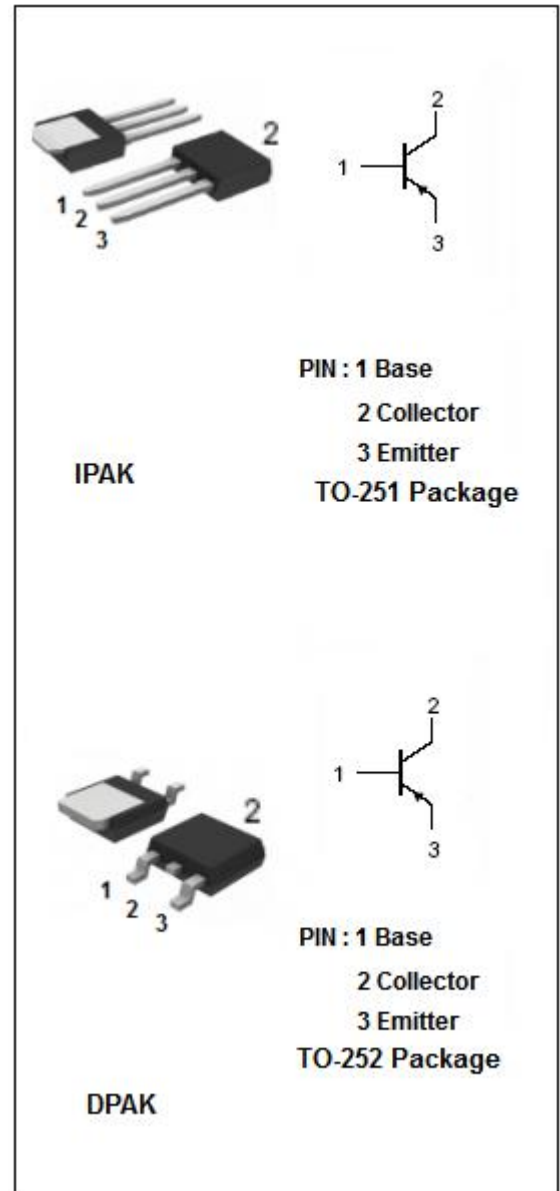
- Low collector-to-emitter saturation voltage
: $V_{CE(sat)} = -1.0V(\text{Max}) @ I_C = -4A$
- Fast switching speed
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Power amplifier applications

ABSOLUTE MAXIMUM RATINGS ($T_a = 25^\circ\text{C}$)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	-30	V
V_{CEO}	Collector-Emitter Voltage	-20	V
V_{EBO}	Emitter-Base Voltage	-6	V
I_C	Collector Current-Continuous	-5	A
I_{CM}	Collector Current-Peak	-10	A
P_C	Collector Power Dissipation @ $T_a = 25^\circ\text{C}$	1.0	W
	Collector Power Dissipation @ $T_c = 25^\circ\text{C}$	10	
T_J	Junction Temperature	150	$^\circ\text{C}$
T_{stg}	Storage Temperature Range	-55~150	$^\circ\text{C}$



isc Silicon PNP Power Transistor
2SB1412
ELECTRICAL CHARACTERISTICS

 T_c=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -4A; I _B = -0.1A			-1.0	V
V _{(BR)CBO}	Collector-Base Breakdown Voltage	I _C = -50uA; I _B = 0	-30			V
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = -1mA; I _B = 0	-20			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = -50uA; I _C = 0	-6			V
I _{CBO}	Collector Cutoff Current	V _{CB} = -20V; I _E = 0			-0.5	uA
I _{EBO}	Emitter Cutoff Current	V _{EB} = -5V; I _C = 0			-0.5	uA
h _{FE}	DC Current Gain	I _C = -0.5A; V _{CE} = -2V	82		390	
C _{OB}	Output Capacitance	I _E = 0; V _{CB} = -20V; f= 1.0MHz		60		pF
f _T	Current-Gain—Bandwidth Product	I _C = -50mA; V _{CE} = -6V		120		MHz

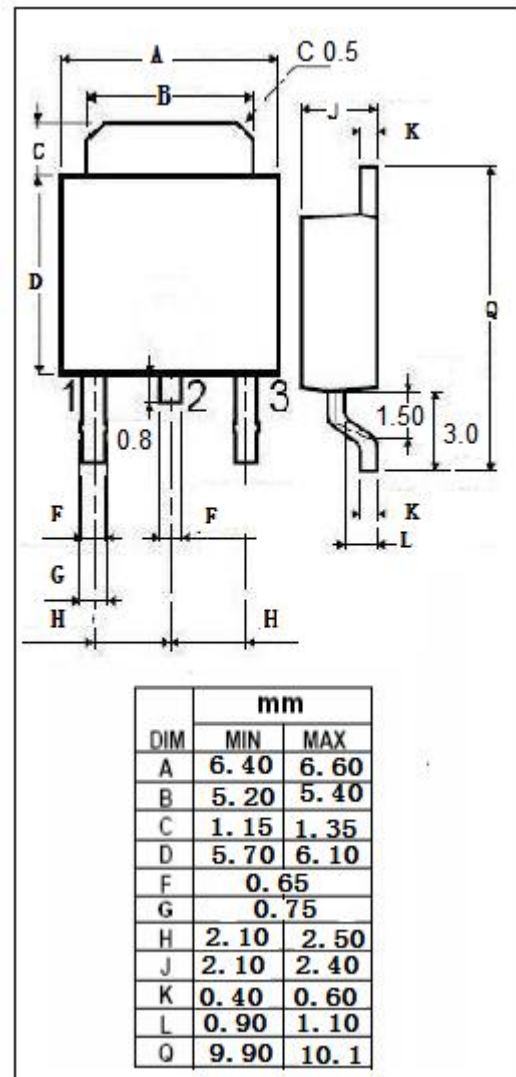
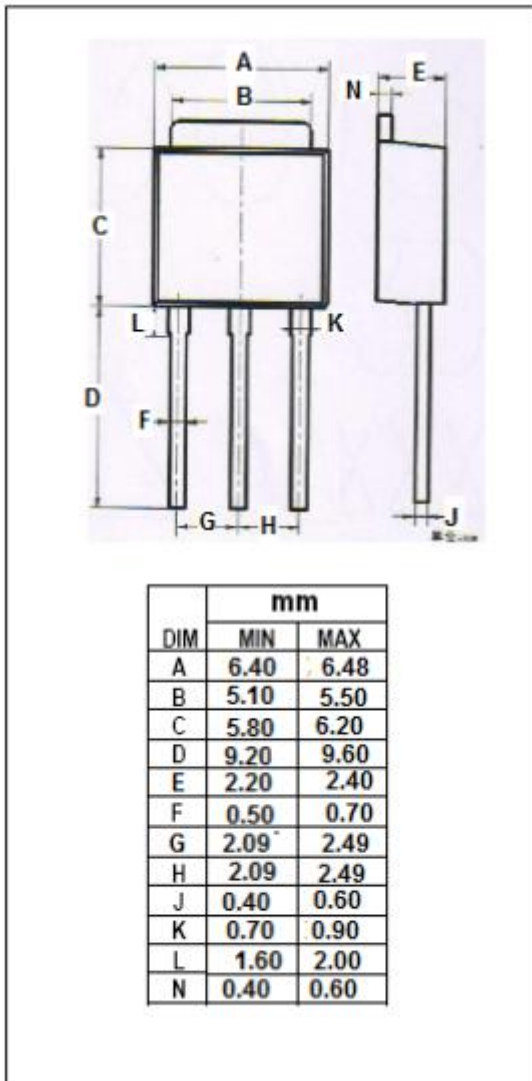
◆ h_{FE1} Classifications

P	Q	R
82-180	120-270	180-390

isc Silicon PNP Power Transistor

2SB1205

Outline Drawing



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