

isc Silicon PNP Power Transistor

2SA1700

DESCRIPTION

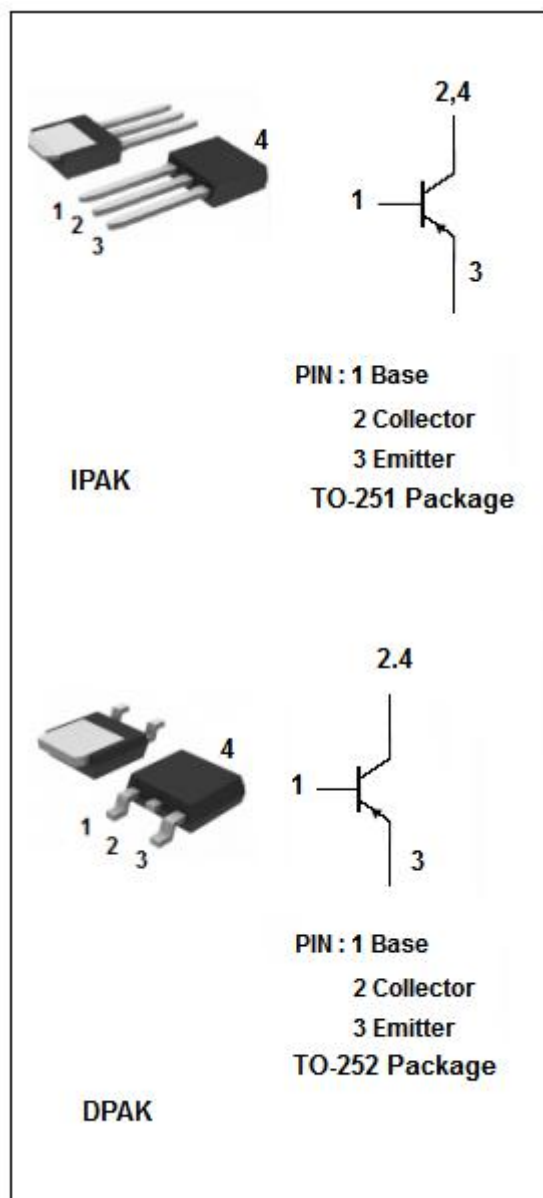
- High breakdown voltage
- Low Collector-Emitter Saturation Voltage
- High Power Dissipation-
: $P_C = 10W @ T_C = 25^\circ C$, $P_C = 10W @ T_a = 25^\circ C$
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- For high voltage driver applications.

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	-400	V
V_{CEO}	Collector-Emitter Voltage	-400	V
V_{EBO}	Emitter-Base Voltage	-5	V
I_C	Collector Current-Continuous	-0.2	A
I_{CM}	Collector Current-Peak	-0.4	A
P_C	Collector Power Dissipation @ $T_C = 25^\circ C$	10	W
	Collector Power Dissipation @ $T_a = 25^\circ C$	1.0	
T_J	Junction Temperature	150	$^\circ C$
T_{stg}	Storage Temperature Range	-55~150	$^\circ C$



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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 = -50mA; I _B = -5mA			-0.8	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = -50mA; I _B = -5mA			1.0	V
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = -1mA; I _B = 0	-400			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = -10μA; I _C = 0	-5			V
I _{CBO}	Collector Cutoff Current	V _{CB} = -300V; I _E = 0			-0.1	μ A
I _{EBO}	Emitter Cutoff Current	V _{EB} = -4V; I _C = 0			-0.1	μ A
h _{FE}	DC Current Gain	I _C = -50mA; V _{CE} = -10V	60		200	
f _T	Current-Gain—Bandwidth Product	I _C = -10mA; V _{CE} = -30V		70		MHz

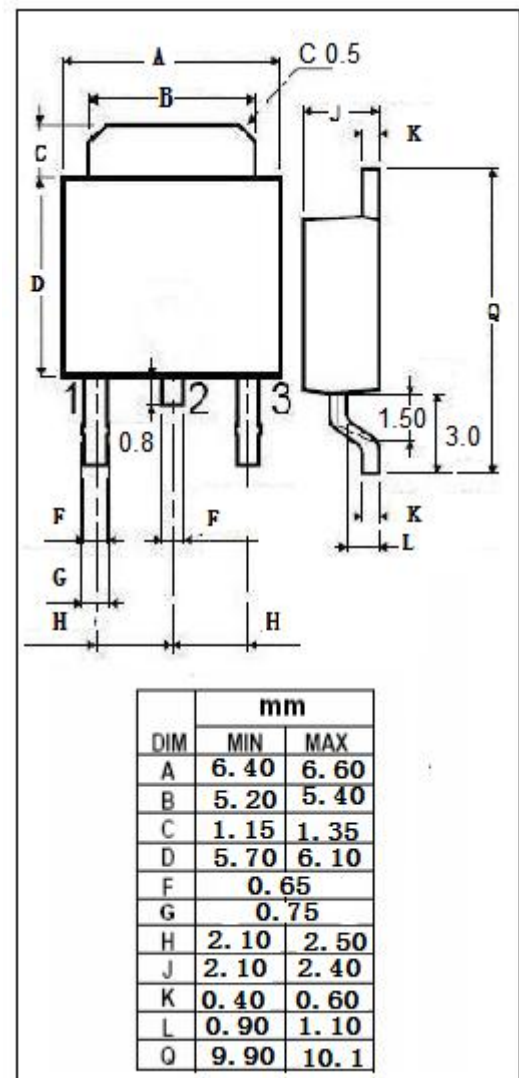
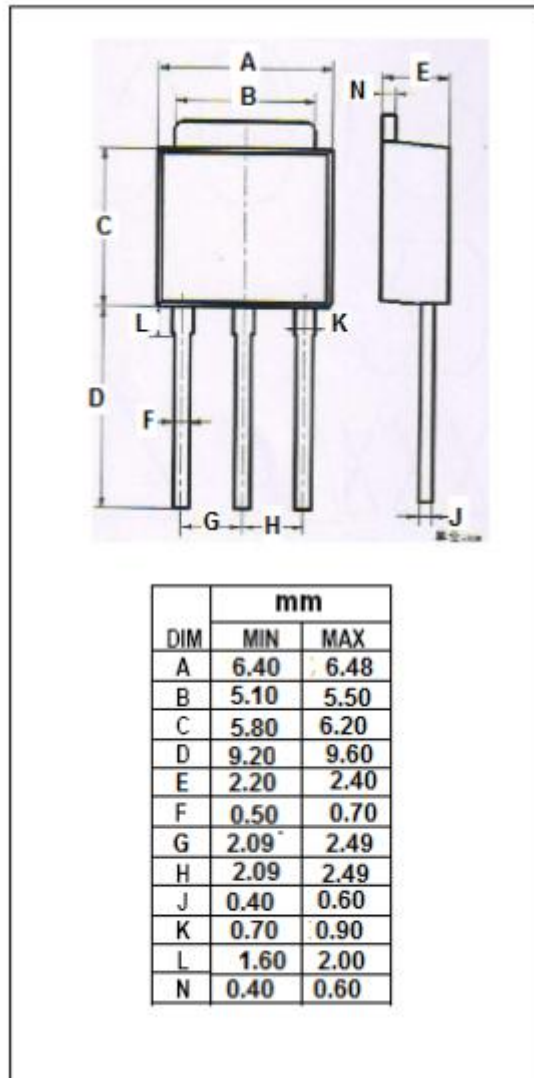
◆ h_{FE} Classifications

D	E
60-120	100-200

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Outline Drawing



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