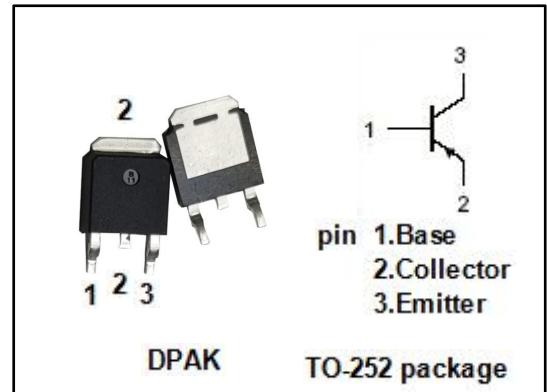


isc Silicon PNP Power Transistor
2SA2097
DESCRIPTION

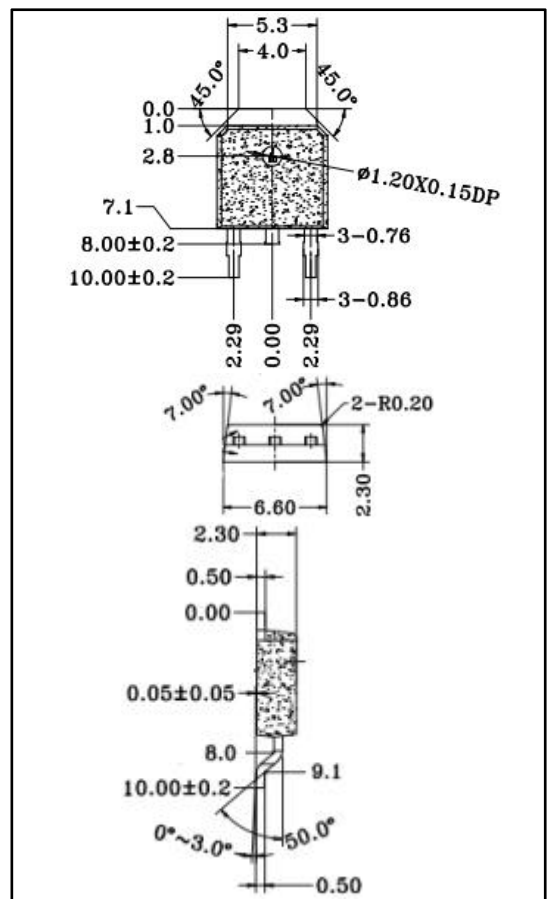
- With TO-252(DPAK) packaging
- Excellent linearity of h_{FE}
- Low collector-to-emitter saturation voltage
- Fast switching speed
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Relay drivers, high-speed inverters , converters
- Other general high current switching applications


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

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	-50	V
V_{CEO}	Collector-Emitter Voltage	-50	V
V_{EBO}	Emitter-Base Voltage	-7	V
I_C	Collector Current-Continuous	-5	A
I_{CP}	Collector Current-Continuous	-10	A
I_B	Base Current	-0.5	A
P_C	Collector Power Dissipation	20	W
T_J	Junction Temperature	150	$^\circ\text{C}$
T_{stg}	Storage Temperature Range	-55~150	$^\circ\text{C}$



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ELECTRICAL CHARACTERISTICS
T_c=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
BV _{CBO}	Collector-Base Breakdown Voltage	I _C =-1mA; I _B =0	-50	-		V
BV _{CEO}	Collector-Emitter Breakdown Voltage	I _C =-10mA; I _B =0	-50	-	-	V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C =-1.6A; I _B = -53mA	-	-	-0.27	mV
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C =-1.6A; I _B = -53mA	-	-	-1.10	V
I _{CBO}	Collector Cutoff Current	V _{CB} = -50V; I _E = 0	-	-	-100	μ A
I _{EBO}	Emitter Cutoff Current	V _{EB} = -7V; I _C =0	-	-	-100	μ A
h _{FE-1}	DC Current Gain	I _C = -0.5A ; V _{CE} = -2V	200	-	500	-
h _{FE-2}	DC Current Gain	I _C = -2A ; V _{CE} = -1.6V	100	-	-	-
t _r	Rise time	V _{CC} = 24 V, I _{B1} = I _{B2} =- 50 mA	-	65	-	ns
t _{stg}	Storage time		-	280	-	ns
t _f	Fall time		-	55	-	ns

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