

ISC Silicon NPN Power Transistor

2SD1624

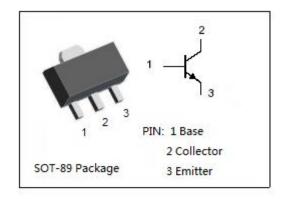
DESCRIPTION

- · Collector-Emitter Breakdown Voltage-
 - : V_{(BR)CEO}= 50V (Min)
- · Fast switching speed
- 100% tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



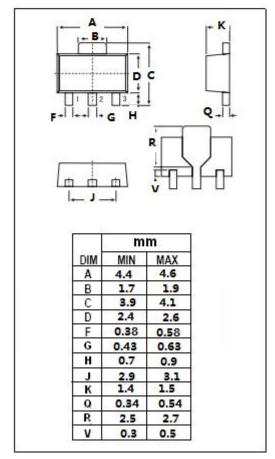
APPLICATIONS

• Designed for L_F Amp Electronic Governor applications.



ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	60	V
V _{CEO}	Collector-Emitter Voltage	50	V
V _{EBO}	Emitter-Base Voltage	6	V
Ic	Collector Current-Continuous	3	А
Ісм	Collector Current-Peak	6	А
P _C	Collector Power Dissipation @ Tc=25℃	0.5	W
Тл	Junction Temperature	150	°C
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$ C





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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 = 1mA; I _B = 0	50			V
V _{(BR)CBO}	Collector-Base Breakdown Voltage	I _C =-10uA ,I _E =0	60			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = 10uA; I _C = 0	6			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 2A; I _B = 100mA			0.5	V
$V_{\text{BE}(sat)}$	Base-Emitter Saturation Voltage	I _C = 2A; I _B = 100mA			1.2	V
Ісво	Collector Cutoff Current	V _{CB} = 40V; I _E = 0			1.0	μА
I _{EBO}	Emitter Cutoff Current	V _{EB} = 4V; I _C = 0			1.0	μА
h _{FE}	DC Current Gain	I _C = 100mA; V _{CE} = 2V	100		560	
f⊤	Current-Gain—Bandwidth Product	I _C = 50mA; V _{CE} = 10V		150		MHz
Сов	Output Capacitance	I _E = 0; V _{CB} = 10V; f= 1.0MHz		25		pF

hff Classifications

R	S	T	U
100-200	140-280	200-400	280-560

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