

isc Silicon PNP Power Transistor

2SB554

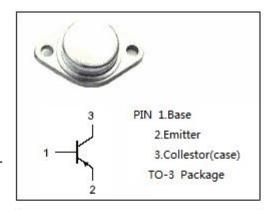
DESCRIPTION

- · High Power Dissipation-
 - : P_C= 150W@T_C= 25℃
- · High Collector-Emitter Breakdown Voltage-
 - : V_{(BR)CEO}= 180V(Min)
- Complement to Type 2SD424
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



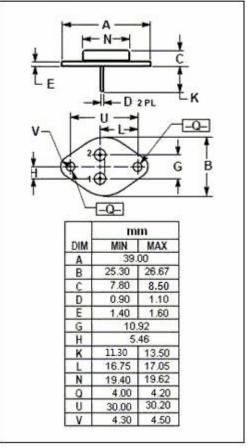
APPLICATIONS

 Designed for power amplifier ,DC-DC converter and regulator applications.



ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	-180	V
V _{CEO}	Collector-Emitter Voltage	-180	V
V _{EBO}	Emitter-Base Voltage	-5	V
lc	Collector Current-Continuous	-15	А
l _Β	Base Current-Continuous	1.5	А
Pc	Collector Power Dissipation @Tc=25℃	150	W
TJ	Junction Temperature	150	$^{\circ}$
T _{stg}	Storage Temperature -55~150		$^{\circ}$





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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 =30mA; I _B = 0	-180			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = 1mA ; I _C = 0	-5			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 10A; I _B = 1A			-3.0	V
V _{BE(on)}	Base-Emitter On Voltage	I _C = 10A ; V _{CE} = 5V			-2.5	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 90V; I _E = 0			-0.1	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0			-0.1	mA
h _{FE}	DC Current Gain	I _C = 2A; V _{CE} = 5V	40		140	
f⊤	Current-Gain—Bandwidth Product	I _C = 2A; V _{CE} = 5V		5		MHz
Сов	Output Capacitance	I _E = 0 ; V _{CB} = 10V; f= 1MHz		300		pF

♦ h_{FE-2} Classifications

R	0
40-80	70-140

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