

isc Silicon NPN Power Transistor

2SD74

DESCRIPTION

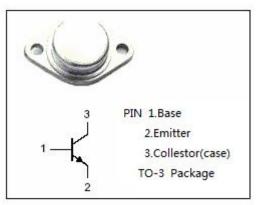
- Collector-Emitter Breakdown Voltage-
- : V_{(BR)CEO}= 90V(Min)
- Good Linearity of h_{FE}
- Wide Area of Safe Operation
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

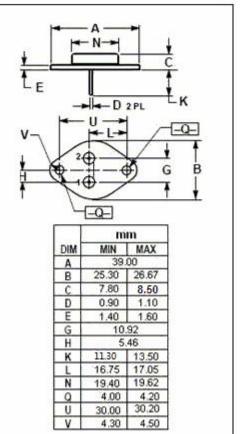
APPLICATIONS

• Designed for use in general purpose power amplifier and switching applications

ABSOLUTE MAXIMUM RATINGS(T_a=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	150	V
V _{CEO}	Collector-Emitter Voltage	90	V
V _{EBO}	Emitter-Base Voltage	5	V
Ic	Collector Current-Continuous	5	A
I _{CM}	Collector Current-Peak	8	А
Pc	Collector Power Dissipation @ T_c =25 °C	60	W
TJ	Junction Temperature	175	°C
T _{stg}	Storage Temperature Range	-65~175	°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	Ic= 30mA; I _B = 0	90			V
V _{(BR)CBO}	Collector-Base Breakdown Voltage	I _C = 1mA; I _E = 0	150			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 = 5A; I _B = 0.5A			2.0	V
V _{BE(on)}	Base -Emitter On Voltage	I _C = 1A; V _{CE} = 5V			1.5	V
Ісво	Collector Cutoff Current	V _{CB} = 150V; I _E = 0			100	uA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0			100	uA
h _{FE-1}	DC Current Gain	I _C = 1A; V _{CE} = 5V	60		200	
h _{FE-2}	DC Current Gain	I _C = 4A; V _{CE} = 5V	20			
f _T	Current-Gain—Bandwidth Product	I _C = 1A; V _{CE} = 5V		20		MHz

NOTICE:

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