

isc Silicon NPN Darlingtion Power Transistor

2SD1540

DESCRIPTION

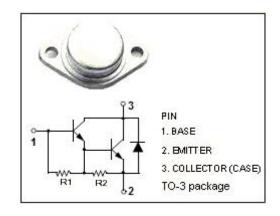
- High DC current gainh_{FE} = 800 (Min) @ I_C = 0.5A
- Collector-Emitter Breakdown Voltage-V_{(BR)CEO}= 100V(Min)
- · Fast Switching Speed
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

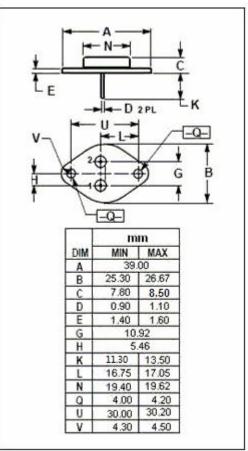
APPLICATIONS

 Designed for general purpose power amplifier and switching applications.

ABSOLUTE MAXIMUM RATINGS(T_C=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	100	٧
V _{CEO}	Collector-Emitter Voltage	100	٧
V _{EBO}	Emitter-Base Voltage	5	V
Ic	Collector Current -Continuous	6	Α
I _B	Base Current	0.2	Α
Pc	Collector Power Dissipation@T _C =25℃	60	W
TJ	Junction Temperature 150		$^{\circ}$
T _{stg}	Storage Temperature -65~150		°C







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ELECTRICAL CHARACTERISTICS

T_c=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 30mA; I _B = 0	100		V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = 2mA; I _C = 0	5		V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 4A; I _B = 16mA		2.0	V
V _{BE(on)}	Base-Emitter On voltage	I _C = 4A ; V _{CE} = 4V		2.5	V
I _{CEO}	Collector Cutoff current	V _{CE} = 100V; I _B = 0		1.0	mA
Ісво	Collector Cutoff current	V _{CB} = 100V; I _E = 0		0.1	mA
I _{EBO}	Emitter Cut-off current	V _{EB} = 5V; I _C = 0		2.0	mA
h _{FE -1}	DC Current Gain	I _C = 0.5A; V _{CE} = 5V	800		20000
h _{FE -2}	DC Current Gain	I _C = 4A; V _{CE} = 3V	500		

NOTICE:

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