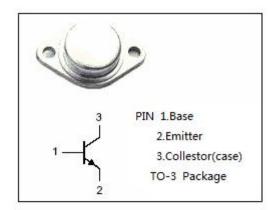


ISC Silicon NPN Power Transistor

2SD320

DESCRIPTION

- · Collector-Emitter Breakdown Voltage-
 - : V_{(BR) CEO}= 230V(Min)
- · Excellent Safe Operating Area
- · Low Collector-Emitter Saturation Voltage-
 - : $V_{CE(sat)}$ = 2.0V(Max)@ I_C = 2A
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

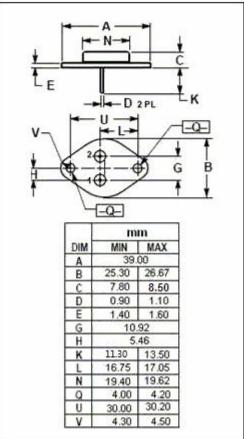


APPLICATIONS

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

ABSOLUTE MAXIMUM RATINGS(T_a=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	300	V
V_{CEO}	Collector-Emitter Voltage	230	V
V _{EBO}	Emitter-Base Voltage	6	V
Ic	Collector Current-Continuous	2	А
I _{CM}	Collector Current-Peak	5	Α
I _B	Base Current	1	А
Pc	Collector Power Dissipation@T _C =25℃	50	W
TJ	Junction Temperature	150	$^{\circ}$
T _{stg}	Storage Temperature	-65~150	$^{\circ}$





isc Silicon NPN Power Transistor

2SD320

ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

	DADAMETED	CONDITIONS	MINI	MAY	LINUT
SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C = 30mA ; I _B = 0	230		V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 2A; I _B = 0.4A		2.0	V
V _{BE(on)}	Base-Emitter On Voltage	Ic= 2A; V _{CE} = 4V		1.8	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 300V; V _{EB} = 0		0.1	mA
I _{CEO}	Collector Cutoff Current	V _{CE} = 230V; I _B = 0		0.5	mA
ІЕВО	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0		10	uA
h _{FE}	DC Current Gain	I _C = 1A; V _{CE} = 5V	50		
fτ	Current-Gain—Bandwidth Product	Ic= 0.2A; Vc= 10V	4		MHz

NOTICE:

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