

ISC Silicon NPN Power Transistor

2SD130

DESCRIPTION

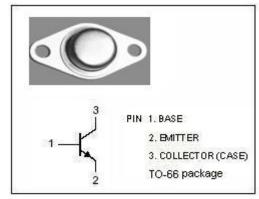
- DC Current Gain -hFE = 15(Min)@ IC= 3A
- · Collector-Emitter Breakdown Voltage-
 - : V_{(BR) CEO}= 60V(Min)
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

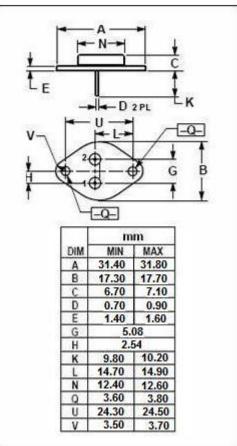


• Designed for use in general purpose amplifier and switching applications.



SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	ector-Base Voltage 100	
V _{CEO}	Collector-Emitter Voltage	60	V
V _{EBO}	Emitter-Base Voltage	10	V
Ic	Collector Current-Continuous	3.0	А
Ісм	Collector Current-Peak	5.0	А
I _B	Base Current 1.		Α
Pc	Collector Power Dissipation@T _C =25℃	25	W
TJ	Junction Temperature	150	$^{\circ}$
T _{stg}	Storage Temperature	-65~150	${\mathbb C}$







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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C = 30mA ; I _B = 0	60		V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 3A; I _B = 0.375A		1.2	V
V _{BE(on)}	Base-Emitter On Voltage	I _C = 3A; V _{CE} = 4V		1.8	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 100V; V _{EB} = 0		0.2	mA
I _{CEO}	Collector Cutoff Current	V _{CE} = 60V; I _B = 0		0.3	mA
ІЕВО	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0		0.1	mA
h _{FE-1}	DC Current Gain	I _C = 0.5A ; V _{CE} = 5V	30	200	
h _{FE-2}	DC Current Gain	Ic= 3A; VcE= 5V	15		
f⊤	Current-Gain—Bandwidth Product	I _C = 0.5A; V _{CE} = 10V	10		MHz

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