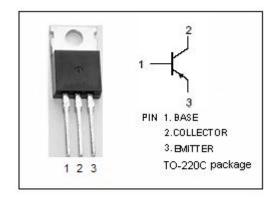


isc Silicon PNP Power Transistors

TIP30A

DESCRIPTION

- · Collector-Emitter Sustaining Voltage-
- : $V_{CEO(SUS)} = -60V(Min)$
- · Collector-Emitter Saturation Voltage-
 - : $V_{CE(sat)} = -0.7V(Max.)@I_C = -1.0A$
- · Complement to Type TIP29A
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



APPLICATIONS

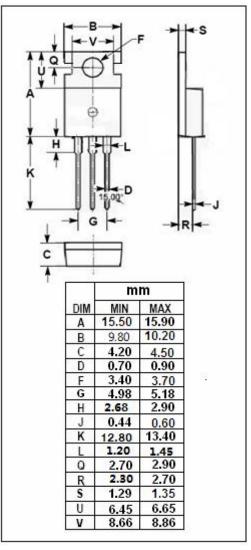
• Designed for use in general purpose amplifier and switching applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-base Voltage	-60	V
V _{CEO}	Collector-emitter Voltage	-60	V
V_{EBO}	Emitter-base Voltage	-5	V
Ic	Collector Current-Continuous	-1	Α
Ісм	Collector Current-Pulse	-3	А
lΒ	Base Current	-0.4	Α
Pc	Collector Power Dissipation T_c =25°C	30	w
T _j	Junction Temperature	150	$^{\circ}$
T _{stg}	Storage Ttemperature Range	-65~150	$^{\circ}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER		UNIT
R _{th j-c}	Thermal Resistance,Junction to Case	4.17	°C/W
R _{th j-a}	Thermal Resistance,Junction to Ambient	62.5	°C/W





isc Silicon PNP Power Transistors

TIP30A

ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
VCEO(SUS)	Collector-Emitter Sustaining Voltage	I _C = -30mA; I _B = 0	-60		V
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = -1A; I _B = -0.125A		-0.7	V
V _{BE(on)}	Base-Emitter On Voltage	I _C = -1A; V _{CE} = -4V		-1.3	V
Ices	Collector Cutoff Current	V _{CE} = -60V; V _{BE} = 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		-1.0	mA
h _{FE-1}	DC Current Gain	I _C = -0.2A; V _{CE} = -4V	40		
h _{FE-2}	DC Current Gain	I _C = -1A ; V _{CE} = -4V	15	75	
f⊤	Current-Gain—Bandwidth Product	Ic= -0.2A; VcE= -10V; f= 1MHz	3		MHz

NOTICE:

ISC reserves the rights to make changes of the content herein the datasheet at any time without notification. The information contained herein is presented only as a guide for the applications of our products.

ISC products are intended for usage in general electronic equipment. The products are not designed for use in equipment which require specialized quality and/or reliability, or in equipment which could have applications in hazardous environments, aerospace industry, or medical field. Please contact us if you intend our products to be used in these special applications.

ISC makes no warranty or guarantee regarding the suitability of its products for any particular purpose, nor does ISC assume any liability arising from the application or use of any products, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages.