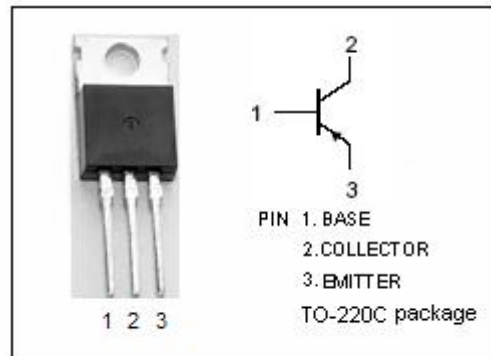


isc Silicon PNP Power Transistors

TIP30C

DESCRIPTION

- Collector-Emitter Sustaining Voltage-
: $V_{CE(SUS)} = -100V(\text{Min})$
- Collector-Emitter Saturation Voltage-
: $V_{CE(sat)} = -0.7V(\text{Max.})@I_C = -1.0A$
- Complement to Type TIP29C
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



APPLICATIONS

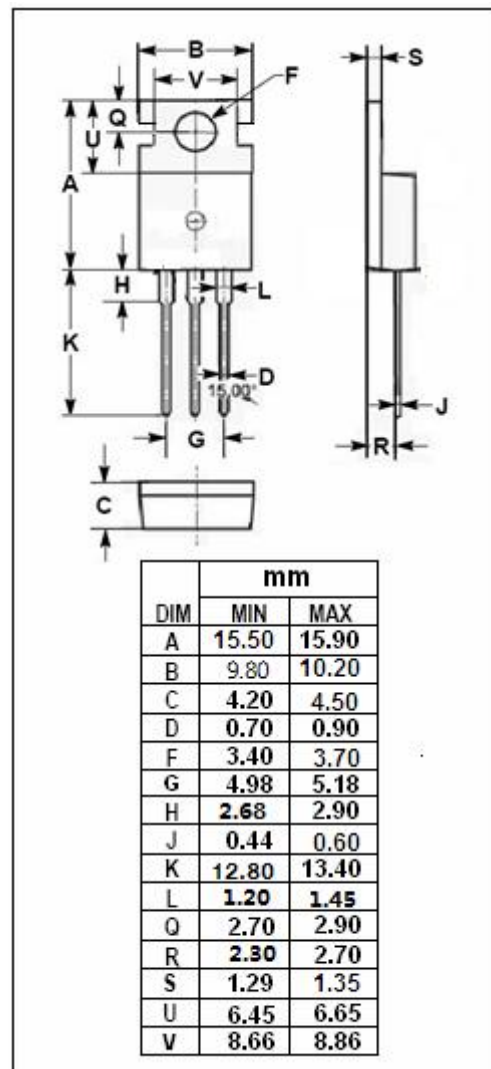
- Designed for use in general purpose amplifier and switching applications.

ABSOLUTE MAXIMUM RATINGS($T_a=25^\circ\text{C}$)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-base Voltage	-100	V
V_{CEO}	Collector-emitter Voltage	-100	V
V_{EBO}	Emitter-base Voltage	-5	V
I_C	Collector Current-Continuous	-1	A
I_{CM}	Collector Current-Pulse	-3	A
I_B	Base Current	-0.4	A
P_C	Collector Power Dissipation $T_c=25^\circ\text{C}$	30	w
T_j	Junction Temperature	150	$^\circ\text{C}$
T_{stg}	Storage Ttemperature Range	-65~150	$^\circ\text{C}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j-c}$	Thermal Resistance, Junction to Case	4.17	$^\circ\text{C/W}$
$R_{th\ j-a}$	Thermal Resistance, Junction to Ambient	62.5	$^\circ\text{C/W}$



isc Silicon PNP Power Transistors**TIP30C****ELECTRICAL CHARACTERISTICS****T_C=25°C unless otherwise specified**

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{CEO(sus)}	Collector-Emitter Sustaining Voltage	I _C = -30mA; I _B = 0	-100		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
I _{CES}	Collector Cutoff Current	V _{CE} = -100V; V _{BE} = 0		-0.2	mA
I _{CEO}	Collector Cutoff Current	V _{CE} = -100V; I _B = 0		-0.3	mA
I _{EBO}	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 _T	Current-Gain—Bandwidth Product	I _C = -0.2A; V _{CE} = -10V; f= 1MHz	3		MHz

NOTICE:

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