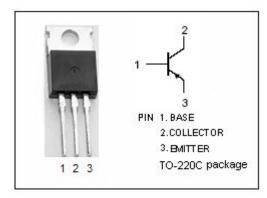


isc Silicon PNP Power Transistors

TIP30C

DESCRIPTION

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



APPLICATIONS

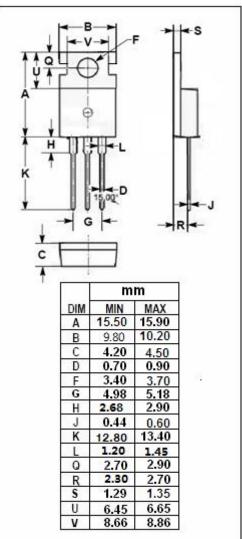
 Designed for use in general purpose amplifier and switching applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

ADOCEOTE MAXIMOM (ATMOO(12-23 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	٧				
Ic	Collector Current-Continuous	-1	Α				
I _{CM}	Collector Current-Pulse	-3	Α				
I _B	Base Current	-0.4	Α				
Pc	Collector Power Dissipation T_C =25°C	30	W				
Tj	Junction Temperature	150	$^{\circ}$				
T _{stg}	Storage Ttemperature Range	-65~150	$^{\circ}$				

THERMAL CHARACTERISTICS

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



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isc Silicon PNP Power Transistors

TIP30C

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	-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	Ic= -1A; VcE= -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
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	Ic= -1A; V _{CE} = -4V	15	75	
f⊤	Current-Gain—Bandwidth Product	I _C = -0.2A; V _{CE} = -10V; f= 1MHz	3		MHz

NOTICE:

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