

isc Silicon NPN Power Transistors

TIP29B

DESCRIPTION

- · Collector-Emitter Sustaining Voltage-
 - $: V_{CEO(SUS)} = 80V(Min)$
- · Collector-Emitter Saturation Voltage-
 - : $V_{CE(sat)} = 0.7V(Max.)@I_C = 1.0A$
- Complement to Type TIP30B
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

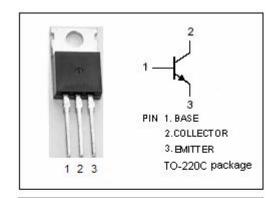
• Designed for use in general purpose amplifier and switching applications.

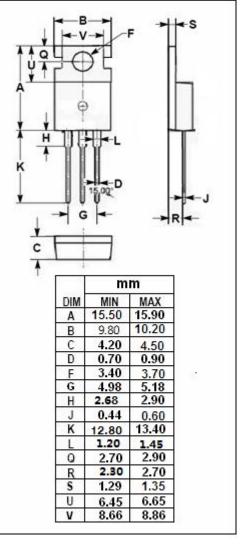
ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	80	V
V _{CEO}	Collector-Emitter Voltage	80	V
V _{EBO}	Emitter-Base Voltage	5	V
Ic	Collector Current-Continuous	1	А
Ісм	Collector Current-Pulse	3	А
lΒ	Base Current	0.4	А
Pc			W
T _j	Junction Temperature 150		$^{\circ}$
T _{stg}	Storage Ttemperature Range	-65~150	$^{\circ}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	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







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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	80		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} = 80V; V _{EB} = 0		0.2	mA
I _{CEO}	Collector Cutoff Current	V _{CE} = 80V; 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	
fτ	Current-Gain—Bandwidth Product	I _C = 0.2A; V _{CE} = 10V; f= 1MHz	3		MHz

NOTICE:

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