

isc Silicon NPN Darlington Power Transistor

TIP132

DESCRIPTION

- · High DC Current Gain-
 - : $h_{FE} = 1000(Min)@I_{C} = 4A$
- · Low Collector-Emitter Saturation Voltage-
- : $V_{CE(sat)} = 2.0V(Max)@ I_{C} = 4A$
- Complement to Type TIP137
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

 Designed for general-purpose amplifier and low-speed switching applications

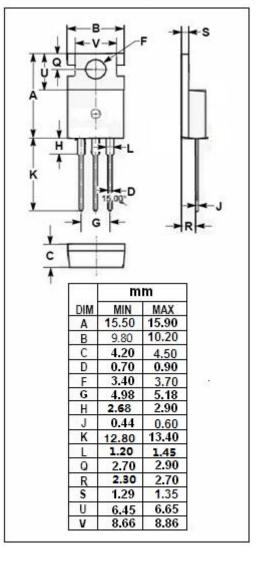
PIN 1. BASE 2.COLLECTOR 3. BMITTER TO-220C package

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	100	V
VCEO	Collector-Emitter Voltage	100	V
V _{EBO}	Emitter-Base Voltage	5	V
Ic	Collector Current-Continuous	8	Α
Ісм	Collector Current-Peak	12	Α
I _B	Base Current- Continuous	0.3	Α
Pc	Collector Power Dissipation @T _C =25°C	70	14/
	Collector Power Dissipation @T _a =25℃	2	W
Tj	Junction Temperature 150		$^{\circ}$
T _{stg}	Storage Temperature Range -65~150		$^{\circ}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance,Junction to Case	1.785	°C/W
R _{th j-a}	Thermal Resistance,Junction to Ambient	63.5	°C/W





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ELECTRICAL CHARACTERISTICS

Tc=25℃ unless otherwise specified

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SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C = 30mA, I _B = 0	100		V
VCE(sat)-1	Collector-Emitter Saturation Voltage	I _C = 4A; I _B = 16mA		2.0	V
VCE(sat)-2	Collector-Emitter Saturation Voltage	I _C = 6A, I _B = 30mA		3.0	V
V _{BE(on)}	Base-Emitter On Voltage	I _C = 4A; V _{CE} = 4V		2.5	V
Ісво	Collector Cutoff Current	V _{CB} = 100V, I _E = 0		0.2	mA
I _{CEO}	Collector Cutoff Current	V _{CE} = 50V, I _B = 0		0.5	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0		5	mA
h _{FE-1}	DC Current Gain	I _C = 1A; V _{CE} = 4V	500		
h _{FE-2}	DC Current Gain	I _C = 4A; V _{CE} = 4V	1000	15000	

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