

isc Silicon PNP Darlington Power Transistor

MJ15021

DESCRIPTION

- · With TO-3 packaging
- Very high DC current gain
- · Monolithic darlington transistor with integrated antiparallel collector-emitter diode
- · Minimum Lot-to-Lot variations for robust device performance and reliable operation



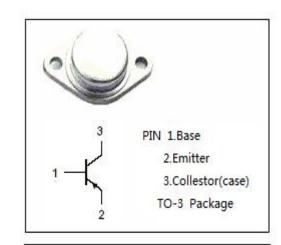
- · Electronic ignition
- · Alternator regulator
- Motor controls

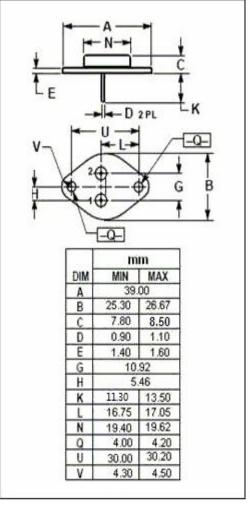


SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage -250		V
V _{CEO}	Collector-Emitter Voltage	-250	V
V _{EBO}	Emitter-Base Voltage	-7	V
Ic	Collector Current-Continuous	-4	Α
lΒ	Base Current- Continuous	-2	Α
P _D	Collector Power Dissipation 150		W
T _j	Max.Junction Temperature 200		$^{\circ}$
T _{stg}	Storage Temperature Range	-65~200	$^{\circ}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance,Junction to Case	1.17	°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 = -100mA, I _B = 0	-250		V
VCE(sat)	Collector-Emitter Saturation Voltage	I _C = -1.0A ,I _B = 0.1A		-1.0	V
V _{BE(on)}	Base-Emitter Saturation Voltage	I _C = -1.0A ,V _{CE} = 4.0V		-2	V
I _{CEO}	Collector Cutoff Current	V _{CE} = -200V, I _B = 0		-0.5	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} =- 7V; I _C = 0		-0.5	mA
h _{FE-1}	DC Current Gain	Ic=-1A; Vc==-4V	30		
h _{FE-2}	DC Current Gain	I _C =-3A ; V _{CE} =-4V	10		

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