

isc Silicon PNP Power Transistor

2N3789

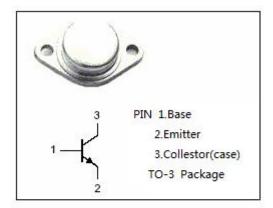
DESCRIPTION

- · Excellent Safe Operating Area
- · Low Collector-Emitter Saturation Voltage
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation.



APPLICATIONS

 Designed for medium-speed switching and amplifier applications.

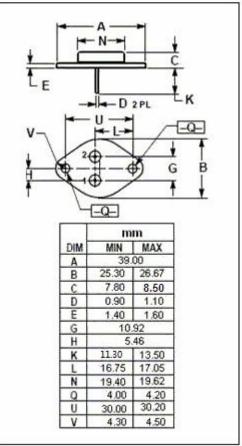


ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	-60	V
V _{CEO}	Collector-Emitter Voltage	-60	V
V _{EBO}	Emitter-Base Voltage	-7	V
Ic	Collector Current-Continuous	-10	Α
Pc	Collector Power Dissipation@T _C =25℃	150	W
TJ	Junction Temperature	-65~200	$^{\circ}$
T _{stg}	Storage Temperature	-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 =-200mA; I _B = 0	-60		V
I _{EBO}	Emitter Cutoff Current	V _{EB} = -7V; I _C = 0		-5	mA
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -4A; I _B =- 0.4A		-1.0	V
VBE(ON)-1	Base-Emitter On Voltage	Ic=-5A; V _{CE} =-2V		-2.0	V
VBE(ON)-2	Base-Emitter On Voltage	I _C =-10A; V _{CE} =-4V		-4.0	V
h _{FE-1}	DC Current Gain	I _C = -1A; V _{CE} = -2V	25	90	
h _{FE-2}	DC Current Gain	I _C = -3A; V _{CE} = -2V	15		
f _T	Current Gain-Bandwidth Product	I _C = -0.5A; V _{CE} = -10V; f= 1.0MHz	4		MHz

^{*:}Pulse test:Pulse width=300us,duty cycle≤2%

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