

isc Silicon PNP Power Transistor

2N3792

DESCRIPTION

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

APPLICATIONS

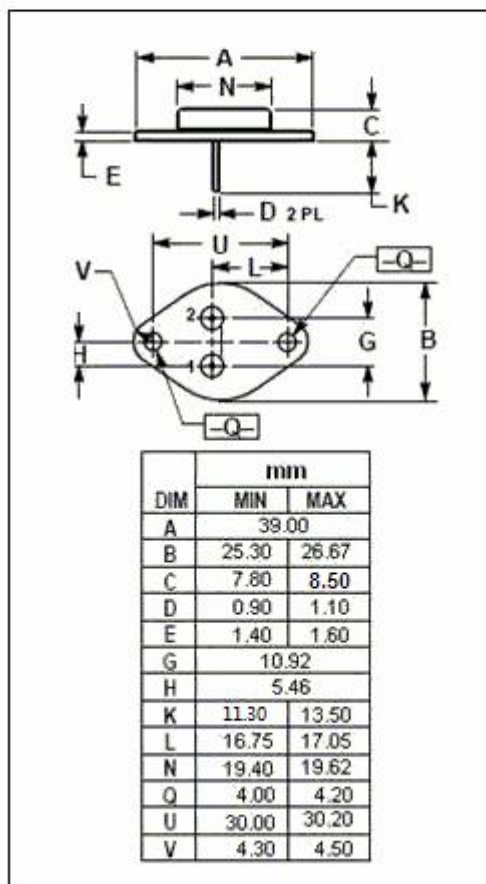
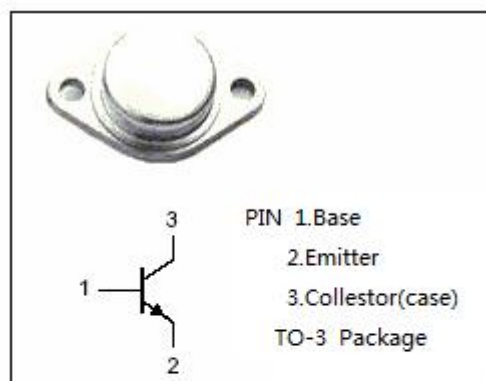
- Designed for medium-speed switching and amplifier applications.

ABSOLUTE MAXIMUM RATINGS($T_a=25^{\circ}\text{C}$)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	-80	V
V_{CEO}	Collector-Emitter Voltage	-80	V
V_{EBO}	Emitter-Base Voltage	-7	V
I_C	Collector Current-Continuous	-10	A
P_C	Collector Power Dissipation@ $T_C=25^{\circ}\text{C}$	150	W
T_J	Junction Temperature	-65~200	$^{\circ}\text{C}$
T_{stg}	Storage Temperature	-65~200	$^{\circ}\text{C}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j-c}$	Thermal Resistance, Junction to Case	1.17	$^{\circ}\text{C}/\text{W}$



isc Silicon PNP Power Transistor**2N3792****ELECTRICAL CHARACTERISTICS****T_C=25°C unless otherwise specified**

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{CEO(SUS)} *	Collector-Emitter Sustaining Voltage	I _C =-200mA; I _B = 0	-80		V
I _{EBO}	Emitter Cutoff Current	V _{EB} = -7V; I _C = 0		-5	mA
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -5A; I _B =- 0.5A		-1.0	V
V _{BE(ON)-1}	Base-Emitter On Voltage	I _C =-5A; V _{CE} =-2V		-1.8	V
V _{BE(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	50	180	
h _{FE-2}	DC Current Gain	I _C = -3A; V _{CE} = -2V	30		
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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