

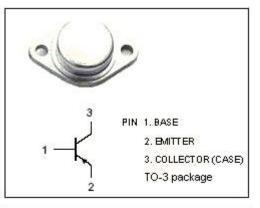
isc Silicon PNP Power Transistor

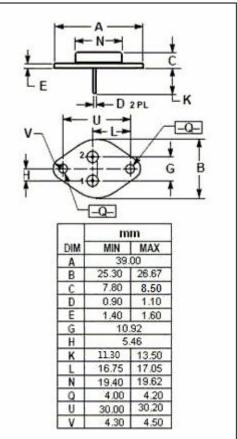
2N3172

DESCRIPTION

APPLICATIONS

- Excellent Safe Operating Area
- Collector-Emitter Saturation Voltage : V_{CE(sat})= -0.75V(Max)@ I_C = -1A
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation





ABSOLUTE MAXIMUM RATINGS(T-=25°C)

ABSOLUTE MAXIMUM RATINGS(Ta=25 C)							
SYMBOL	PARAMETER VALUE		UNIT				
V _{CBO}	Collector-Base Voltage	-60	V				
V _{CEO}	Collector-Emitter Voltage	-60	V				
V_{EBO}	Emitter-Base Voltage	-10	V				
lc	Collector Current-Continuous	-3	A				
Pc	Collector Power Dissipation@Tc=25°C	75	W				
T _{J,} T _{stg}	Operating and Storage Junction Temperature Range	-65~+150	°C				

 All semelab hermetically sealed products, can be processed in accordance with the requirements of BS, CECC, and JAN, JANTX and JANTXV and JAN specifications.

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth j-c	Thermal Resistance, Junction to Case	1.67	°C/W



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ELECTRICAL CHARACTERISTICS

T_c=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	МАХ	UNIT
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -1A; I _B = -0.14A		-0.75	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = -1A; I _B = -0.14A		-1.8	V
I _{CEO}	Collector Cutoff Current	V _{CE} = -60V; I _B =0		-0.1	mA
Іево	Emitter Cutoff Current	V _{EB} = -10V; I _C =0		-0.1	mA
h _{FE}	DC Current Gain	I _C = -1A ; V _{CE} = -3V	12	36	

Notice:

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