

isc Silicon PNP Power Transistor

2N3171

DESCRIPTION

- · 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

APPLICATIONS

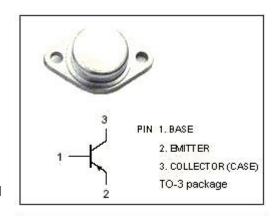
 All semelab hermetically sealed products, can be processed in accordance with the requirements of BS,CECC, and JAN,JANTX and JANTXV and JAN specifications.

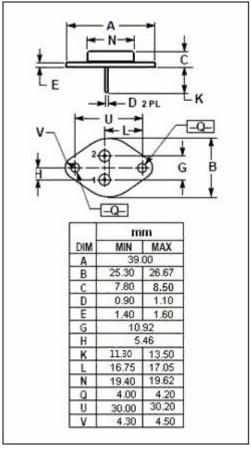
ABSOLUTE MAXIMUM RATINGS(T_a=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	-40	V
V _{CEO}	Collector-Emitter Voltage	-40	V
V _{EBO}	Emitter-Base Voltage	-10	V
Ic	Collector Current-Continuous	-3	А
Pc	Collector Power Dissipation@Tc=25°C	tor Power Dissipation@T _c =25°C 75	
T _J , T _{stg}	Operating and Storage Junction Temperature Range	-65~+150	$^{\circ}$

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	MAX	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} = -40V; I _B =0		-0.1	mA
I _{EBO}	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	



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