

### **isc Silicon PNP Power Transistor**

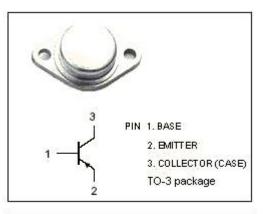
### 2N3174

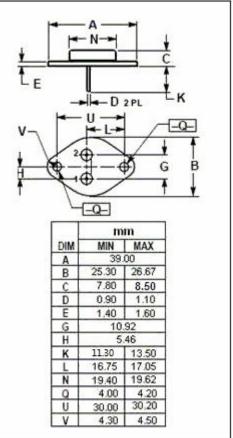
#### DESCRIPTION

- Excellent Safe Operating Area
- Collector-Emitter Saturation Voltage-:  $V_{CE(sat)}$ = -0.75V(Max)@ I<sub>C</sub> = -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(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT				
V <sub>CBO</sub>	Collector-Base Voltage	-100	V				
$V_{\text{CEO}}$	Collector-Emitter Voltage	-100	V				
$V_{\text{EBO}}$	Emitter-Base Voltage	-10	V				
lc	Collector Current-Continuous	-3	A				
Pc	Collector Power Dissipation@Tc=25°C	75	w				
T <sub>J,</sub> T <sub>stg</sub>	Operating and Storage Junction Temperature Range	-65~+150	°C				

### 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<sub>c</sub>=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	МАХ	UNIT
V <sub>CE(sat)</sub>	Collector-Emitter Saturation Voltage	I <sub>C</sub> = -1A; I <sub>B</sub> = -0.14A		-0.75	V
V <sub>BE(sat)</sub>	Base-Emitter Saturation Voltage	I <sub>C</sub> = -1A; I <sub>B</sub> = -0.14A		-1.8	V
I <sub>CEO</sub>	Collector Cutoff Current	V <sub>CE</sub> = -100V; I <sub>B</sub> =0		-0.1	mA
Іево	Emitter Cutoff Current	V <sub>EB</sub> = -10V; I <sub>C</sub> =0		-0.1	mA
h <sub>FE</sub>	DC Current Gain	I <sub>C</sub> = -1A ; V <sub>CE</sub> = -3V	12	36	

#### Notice:

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