

isc Silicon NPN Power Transistor**2N3226****DESCRIPTION**

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

APPLICATIONS

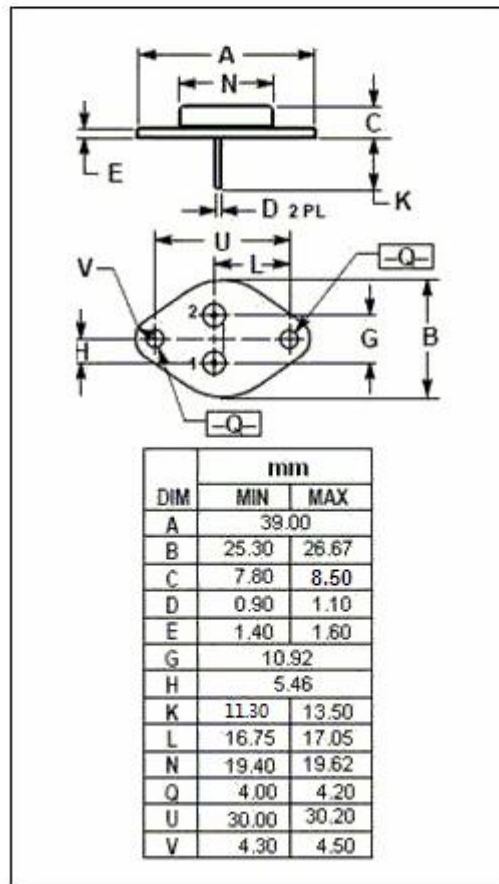
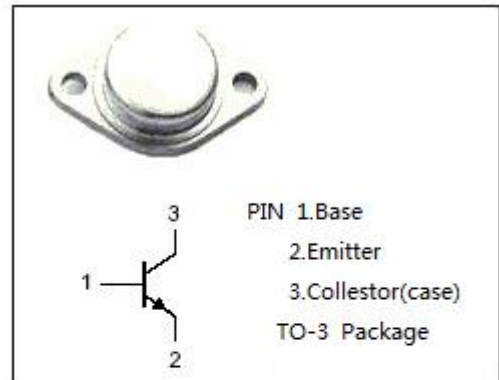
- Designed for power amplifier and switching circuits applications

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	35	V
V_{CER}	Collector-Emitter Voltage	35	V
V_{CEO}	Collector-Emitter Voltage	35	V
V_{EBO}	Emitter-Base Voltage	5	V
I_C	Collector Current-Continuous	5	A
P_C	Collector Power Dissipation@ $T_C=25^{\circ}\text{C}$	75	W
T_J, T_{stg}	Operating and Storage Junction Temperature Range	-65~+150	$^{\circ}\text{C}$

THERMAL CHARACTERISTICS

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



isc Silicon NPN Power Transistors**2N3226****ELECTRICAL CHARACTERISTICS****T_C=25°C unless otherwise specified**

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{CE0(SUS)}	Collector-Emitter Sustaining Voltage	I _C =30mA ; I _B =0	35		V
V _{CE(sat)-1}	Collector-Emitter Saturation Voltage	I _C = 3A; I _B = 0.3A		1.0	V
V _{CE(sat)-2}	Collector-Emitter Saturation Voltage	I _C = 5A; I _B = 1A		2.0	V
V _{BE(on)}	Base-Emitter On Voltage	I _C = 3A ; V _{CE} = 4V		2.0	V
I _{CEO}	Collector Cutoff Current	V _{CE} =35V; I _B =0		0.1	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C =0		0.1	mA
h _{FE-1}	DC Current Gain	I _C =1A ; V _{CE} = 4V	40		
h _{FE-2}	DC Current Gain	I _C = 3A ; V _{CE} = 4V	20		

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