New Jersey Semi-Conductor Products, Inc.

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Silicon PNP Power Transistor

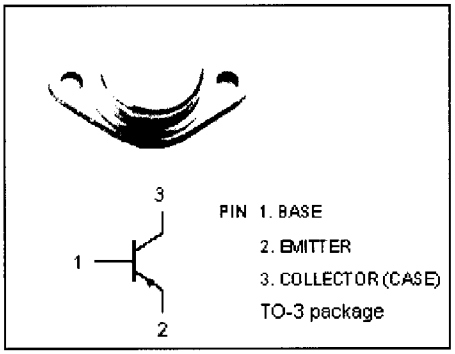
2N6246

DESCRIPTION

- Excellent Safe Operating Area
- High DC Current Gain-
  : h_{FE}= 20-100(Min)@I_C = -7A
- Low Saturation Voltage-
  : $V_{CE(sat)}$= -1.3V(Max)@ I_C = -7A

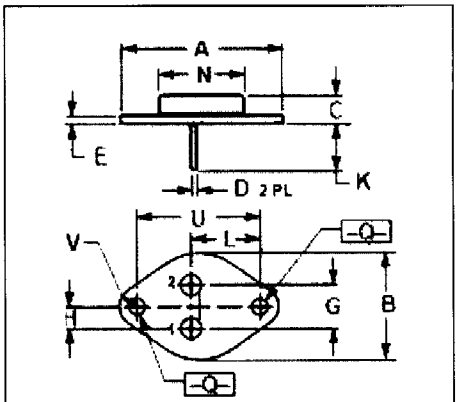
APPLICATIONS

- Designed for general-purpose switching and linear amplifier applications.



ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	-70	V
V_{CER}	Collector-Emitter Voltage R_{BE}= 100Ω	-70	V
V_{CEO}	Collector-Emitter Voltage	-60	V
V_{EBO}	Emitter-Base Voltage	-5	V
I_C	Collector Current-Continuous	-15	A
I_B	Base Current-Continuous	-5	A
P_C	Collector Power Dissipation @T_C=25℃	125	W
T_J	Junction Temperature	200	℃
T_{stg}	Storage Temperature	-65~200	℃



DIM	mm MIN	MAX
A	39.00	
B	25.30	26.67
C	7.80	8.30
D	0.90	1.10
E	1.40	1.60
G	10.92	
H	5.46	
K	11.40	13.50
L	16.75	17.05
N	19.40	19.62
Q	4.00	4.20
U	30.00	30.20
V	4.30	4.50

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j\text{-}c}$	Thermal Resistance,Junction to Case	1.4	℃/W

ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
$V_{CEO(SUS)}$	Collector-Emitter Sustaining Voltage	I_C= -200mA; I_B= 0	-60		V
$V_{CER(SUS)}$	Collector-Emitter Sustaining Voltage	I_C= -200mA; R_{BE}= 100Ω	-70		V
$V_{CE(sat)-1}$	Collector-Emitter Saturation Voltage	I_C= -7A; I_B= -0.7A		-1.3	V
$V_{CE(sat)-2}$	Collector-Emitter Saturation Voltage	I_C= -15A; I_B= -3A		-2.5	V
$V_{BE(on)}$	Base-Emitter On Voltage	I_C= -7A ; V_{CE}= -4V		-2.0	V
I_{CEO}	Collector Cutoff Current	V_{CE}= -30V; I_B= 0		-1.0	mA
I_{CER}	Collector Cutoff Current	V_{CE}= -55V; R_{BE}= 100Ω		-0.2	mA
I_{CEX}	Collector Cutoff Current	V_{CE}= -65V; $V_{BE(off)}$= -1.5V V_{CE}= -55V; $V_{BE(off)}$= -1.5V,T_C=150℃		-0.2 -5.0	mA
I_{EBO}	Emitter Cutoff Current	V_{EB}= -5V; I_C= 0		-5.0	mA
h_{FE-1}	DC Current Gain	I_C= -7A ; V_{CE}= -4V	20	100	
h_{FE-2}	DC Current Gain	I_C= -15A ; V_{CE}= -4V	5		