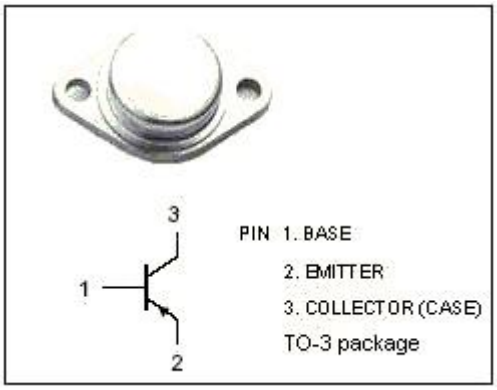
isc Silicon PNP Power Transistors BDW22

DESCRIPTION

- With TO-3 Package
- High Current Capability
- Wide area of safe operation
- Complement to Type BDW21
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

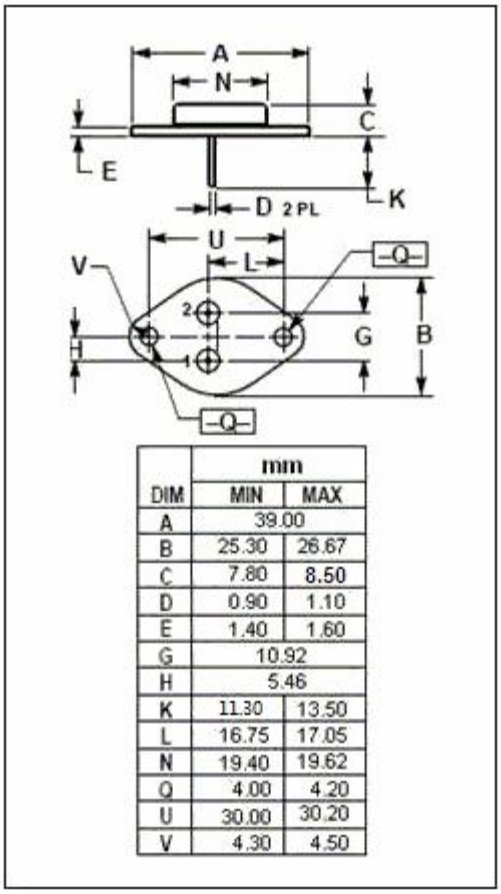


APPLICATIONS

- Designed for use in general purpose amplifier and switching applications.

ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	-45	V
V_{CEO}	Collector-Emitter Voltage	-45	V
V_{EBO}	Emitter-Base Voltage	-6	V
I_C	Collector Current-Continuous	-15	A
I_{CM}	Collector Current-Pulse	-20	A
I_B	Base Current-Continuous	-5	A
P_C	Collector Power Dissipation@T_C=25℃	90	W
T_J	Junction Temperature	150	℃
T_{stg}	Storage Temperature	-65~150	℃



DIM	mm MIN	MAX
A	39.00	
B	25.30	26.67
C	7.80	8.50
D	0.90	1.10
E	1.40	1.60
G	10.92	
H	5.46	
K	11.30	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

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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
$V_{CE(sat)-1}$	Collector-Emitter Saturation Voltage	I_C= -5A; I_B= -0.5A		-1.0	V
$V_{CE(sat)-2}$	Collector-Emitter Saturation Voltage	I_C= -10A; I_B= -1A		-2.0	V
$V_{BE(sat)}$	Base-Emitter Saturation Voltage	I_C= -5A; I_B= -0.5A		-1.5	V
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage	I_C=- 30mA; I_B= 0	-45		V
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage	I_E= -1mA; I_C= 0	-6		V
h_{FE-1}	DC Current Gain	I_C= -1A ; V_{CE}= -5V	60	200	
h_{FE-2}	DC Current Gain	I_C= -15A ; V_{CE}= -5V	15		
I_{CEO}	Collector Cutoff Current	V_{CE}= -45V; I_B= 0		-0.1	mA
I_{EBO}	Emitter Cutoff Current	V_{EB}= -6V; I_C= 0		-0.1	mA
f_T	Current-Gain—Bandwidth Product	I_C= -0.1A ; V_{CE}= -10V	3		MHz