

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

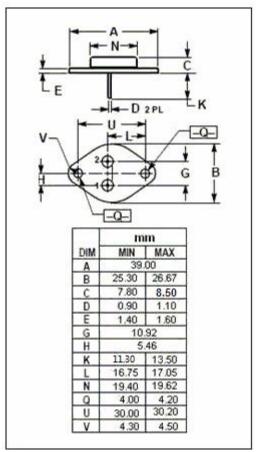


• Designed for use in general purpose amplifier and switching applications.

PIN 1. BASE 2. BMITTER 3. COLLECTOR (CASE) TO-3 package

ABSOLUTE MAXIMUM RATINGS(T_a=25°C)

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
Ic	Collector Current-Continuous	-15	А
Ісм	Collector Current-Pulse	-20	Α
lΒ	Base Current-Continuous	-5	Α
Pc	Collector Power Dissipation@Tc=25°C 90		W
TJ	Junction Temperature	150	$^{\circ}$ C
T _{stg}	Storage Temperature	-65~150	$^{\circ}$





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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
VCE(sat)-2	Collector-Emitter Saturation Voltage	I _C = -10A; I _B = -1A		-2.0	٧
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
fτ	Current-Gain—Bandwidth Product	Ic= -0.1A; Vc== -10V	3		MHz

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