BUW34 BUW35 BUW36

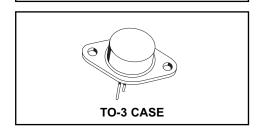
NPN SILICON POWER TRANSISTOR



DESCRIPTION:

The CENTRAL SEMICONDUCTOR BUW34, BUW35, and BUW36 types are silicon NPN power transistors designed for high voltage, fast switching applications.

MARKING: FULL PART NUMBER



MAXIMUM RATINGS: (T_C=25°C unless otherwise noted)

	SYMBOL	<u>BUW34</u>	<u>BUW35</u>	<u>BUW36</u>	UNITS
Collector-Emitter Voltage	V_{CES}	500	800	900	V
Collector-Emitter Voltage	V_{CEO}	400	400	450	V
Emitter-Base Voltage	V_{EBO}		7.0		V
Collector Current	IC		10		Α
Base Current	ΙΒ		5.0		Α
Power Dissipation	P_D		125		W
Operating and Storage Junction Temperature	T _J , T _{stg}		-65 to +200		°C
Thermal Resistance	ΘJC		1.4		°C/W

ELECTRICAL CHARACTERISTICS: ((T _C =25°C unless otherwise noted)
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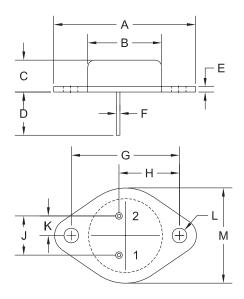
TEST CONDITIONS	MIN	MAX	UNITS
V _{CE} =Rated V _{CES}		500	μΑ
V _{CE} =Rated V _{CES} , T _C =125°C		3	mA
V _{EB} =7.0V		1	mA
I _C =100mA (BUW34, BUW35)	400		V
I _C =100mA (BUW36)	450		V
I _C =5.0A, I _B =1.0A		1.5	V
I _C =8.0A, I _B =2.5A (BUW35)		1.5	V
I _C =8.0A, I _B =2.5A (BUW36)		3.0	V
I _C =5.0A, I _B =1.0A		1.5	V
I _C =8.0A, I _B =2.5A (BUW35, BUW36)		1.8	V
V _{CE} =5.0V, I _C =1.0A	15		
I _C =5.0A, I _{B1} =1.0A, V _{CC} =250V		0.7	μs
I _C =5.0A, I _{B1} =I _{B2} =1.0A, V _{CC} =250V		3.8	μs
֡֡֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜	V _{CE} =Rated V _{CES} , T _C =125°C V _{CE} =Rated V _{CES} , T _C =125°C V _{EB} =7.0V C=100mA (BUW34, BUW35) C=100mA (BUW36) C=5.0A, I _B =1.0A C=8.0A, I _B =2.5A (BUW35) C=8.0A, I _B =2.5A (BUW36) C=5.0A, I _B =1.0A C=8.0A, I _B =2.5A (BUW35, BUW36) C=5.0A, I _B =1.0A C=8.0A, I _B =2.5A (BUW35, BUW36)	VCE=Rated VCES VCE=Rated VCES, TC=125°C VEB=7.0V IC=100mA (BUW34, BUW35) 400 IC=100mA (BUW36) 450 IC=5.0A, IB=1.0A IC=8.0A, IB=2.5A (BUW35) IC=8.0A, IB=2.5A (BUW36) IC=5.0A, IB=1.0A IC=8.0A, IB=2.5A (BUW35, BUW36) IC=5.0A, IB=1.0A 15 IC=5.0A, IB=1.0A 15	TEST CONDITIONS MIN MAX VCE=Rated VCES 500 VCE=Rated VCES, TC=125°C 3 VEB=7.0V 1 C=100mA (BUW34, BUW35) 400 C=2100mA (BUW36) 450 C=5.0A, IB=1.0A 1.5 C=8.0A, IB=2.5A (BUW35) 1.5 C=8.0A, IB=2.5A (BUW36) 3.0 C=5.0A, IB=1.0A 1.5 C=8.0A, IB=2.5A (BUW35, BUW36) 1.8 VCE=5.0V, IC=1.0A 15 C=5.0A, IB1=1.0A, VCC=250V 0.7



BUW34 BUW35 BUW36

NPN SILICON POWER TRANSISTOR

TO-3 CASE - MECHANICAL OUTLINE



R2

DIMENSIONS								
	INCHES		MILLIMETERS					
SYMBOL	MIN	MAX	MIN	MAX				
А	1.516	1.573	38.50	39.96				
B (DIA)	0.748	0.875	19.00	22.23				
С	0.250	0.450	6.35	11.43				
D	0.433	0.516	11.00	13.10				
Е	0.054	0.065	1.38	1.65				
F	0.035	0.045	0.90	1.15				
G	1.177	1.197	29.90	30.40				
Н	0.650	0.681	16.50	17.30				
J	0.420	0.440	10.67	11.18				
K	0.205	0.225	5.21	5.72				
L (DIA)	0.151	0.172	3.84	4.36				
М	0 984	1.050	25.00	26 67				

LEAD CODE:

- 1) Base
- 2) Emitter
- C) Collector

TO-3 (REV: R2)

MARKING: FULL PART NUMBER

R0 (5-March 2008)

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Central's operations team provides the highest level of support to insure product is delivered on-time.

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- · Inventory bonding
- · Consolidated shipping options

- · Custom bar coding for shipments
- · Custom product packing

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- · Custom electrical curves
- · Environmental regulation compliance
- · Customer specific screening
- · Up-screening capabilities

- · Special wafer diffusions
- PbSn plating options
- · Package details
- · Application notes
- · Application and design sample kits
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