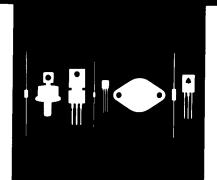
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Central Semiconductor Corp. Central [™] Semiconductor Corp.

145 Adams Avenue Hauppauge, New York 11788



2N3442

Single Diffused (Hometaxial)
NPN Silicon Power Transistor

JEDEC TO 3 CASE

DESCRIPTION

The CENTRAL SEMICONDUCTOR 2N3442 is a Silicon NPN Single Diffused (Hometaxial) High Voltage Power Transistor designed for high voltage, high power amplifier applications.

MAXIMUM RATINGS (TC=25°C)

	SYMBOL		UNIT
Collector-Base Voltage Collector-Emitter Voltage Collector-Emitter Voltage Emitter-Base Voltage Collector Current Collector Current (PEAK) Base Current Power Dissipation	VCBO VCEV VCEO VEBO IC ICM IB PD	160 160 140 7.0 10 15 7.0	V V V A A W
Operating and Storage Junction Temperature Thermal Resistance	T _J , T _{stg} ⁰ JC	-65 TO +200 1.5	°c °c/w

ELECTRICAL CHARACTERISTICS (Tc=25°C)

SYMBOL	TEST CONDITIONS	MIN MAX	UNIT
CEV CEO EBO	V _{CE} =140V, V _{BE} =1.5V V _{CE} =140V V _{BE} =7.0V	5.0 200 5.0	mA mA mA
BVCEO	I _C =0.2A	140	V
V _{CE} (SAT)	I _C =10A, I _B =2.0A	5.0	V
VBE(ON) hFE hFE hfe fT	V _{CE} =4.0V, I _C =10A V _{CE} =4.0V, I _C =3.0A V _{CE} =4.0V, I _C =10A V _{CE} =4.0V, I _C =2.0A, f=1.0kHz V _{CE} =4.0V, I _C =2.0A, f=40kHz	5.7 20 70 7.5 12 72 80	V
' 1	"LE-4.0", IL-2.0A, I-40KIIZ	00	kHz

OUTSTANDING SUPPORT AND SUPERIOR SERVICES



PRODUCT SUPPORT

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

- Supply management (Customer portals)
- · Inventory bonding
- · Consolidated shipping options

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

DESIGNER SUPPORT/SERVICES

Central's applications engineering team is ready to discuss your design challenges. Just ask.

- Free guick ship samples (2nd day air)
- Online technical data and parametric search
- SPICE models
- · 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
- Custom product and package development

REQUESTING PRODUCT PLATING

- 1. If requesting Tin/Lead plated devices, add the suffix "TIN/LEAD" to the part number when ordering (example: 2N2222A TIN/LEAD).
- 2. If requesting Lead (Pb) Free plated devices, add the suffix "PBFREE" to the part number when ordering (example: 2N2222A PBFREE).

CONTACT US

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