imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

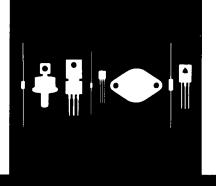
Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



lister i Families and the familie Central Semiconductor Corp. Central

Semiconductor Corp. Central™ Semiconductor Corp.

145 Adams Avenue Hauppauge, New York 11788



2N3820 P-CHANNEL JUNCTION FET

JEDEC TO-92 CASE

DESCRIPTION

The CENTRAL SEMICONDUCTOR 2N3820 type is a Silicon P-Channel Junction Field Effect Transistor designed for low level amplifier applications.

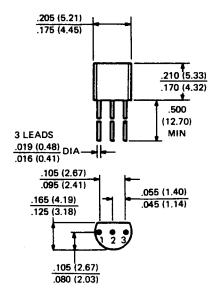
MAXIMUM RATINGS $(T_A = 25^{\circ}C)$

	SYMBOL		UNIT
Gate-Drain Voltage	VGD	20	V
Drain-Source Voltage	V _{DS}	20	V
Gate-Source Voltage (Reverse)	VGS	20	V
Gate Current	I G	10	mA
Power Dissipation	PD	360	mW
Operating and Storage	5		
Junction Temperature	Τ _J ,T _{STG}	-65 TO +150	°C

ELECTRICAL CHARACTERISTICS (TA=25°C unless otherwise noted)

SYMBOL	TEST CONDITIONS	MIN	MAX	UNIT
GSS	V _{GS} =10V		20	nA
IGSS	$V_{GS} = 10V$, $T_{A} = 100^{\circ}C$		2.0	μA
IDSS	V _{DS} =10V	0.3	15	mA
I _{DSS} BV _{GSS}	I _G =10μA	20		V
V _{GS}	$V_{DS} = 10V$, $I_{D} = 30\mu A$	0.3	7.9	v
VGS(OFF)	$V_{DS} = 10V$, $I_{D} = 10\mu A$		8.0	V
Ciss	V _{DS} =10V, V _{GS} =0, f=1.0MHz		32	pF
Crss	V_{DS} =10V, V_{GS} =0, f=1.0MHz		16	pF
lyfsl	VDS=10V, V _{GS} =0, f=1.0kHz	800	5000	µmho
lyfsl	$V_{DS}=10V$, $V_{GS}=0$, f=10MHz	700		µmho
lyosl	V _{DS} =10V, V _{GS} =0, f=1.0kHz		200	µmho

OUTLINE DRAWING:



LE/	<u>AD</u>	CODE:
1. DRAIN		
2.	G/	ATE

3. SOURCE

145 Adams Avenue, Hauppauge, NY 11788 USA Tel: (631) 435-1110 • Fax: (631) 435-1824

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

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

· Custom product packing

Custom bar coding for shipments

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

REQUESTING PRODUCT PLATING

- If requesting Tin/Lead plated devices, add the suffix "TIN/LEAD" to the part number when 1. 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

Corporate Headquarters & Customer Support Team

Central Semiconductor Corp. 145 Adams Avenue Hauppauge, NY 11788 USA Main Tel: (631) 435-1110 Main Fax: (631) 435-1824 Support Team Fax: (631) 435-3388 www.centralsemi.com

Worldwide Field Representatives: www.centralsemi.com/wwreps

Worldwide Distributors: www.centralsemi.com/wwdistributors

For the latest version of Central Semiconductor's LIMITATIONS AND DAMAGES DISCLAIMER. which is part of Central's Standard Terms and Conditions of sale, visit: www.centralsemi.com/terms

