

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!



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2N4858 2N4858A

N-CHANNEL SILICON JFET



www.centralsemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR 2N4858 and 2N4858A are N-Channel silicon JFETs designed for analog switching and chopper applications.





MAXIMUM RATINGS: (T _A =25°C)	SYMBOL		UNITS
Drain-Source Voltage	V_{DS}	40	V
Drain-Gate Voltage	V_{DG}	40	V
Reverse Gate-Source Voltage	V_{GSR}	40	V
Forward Gate Current	I_{GF}	50	mA
Power Dissipation (T _A =25°C)	P_{D}	360	mW
Operating and Storage Junction Temperature	T _J , T _{sta}	-65 to +200	°C

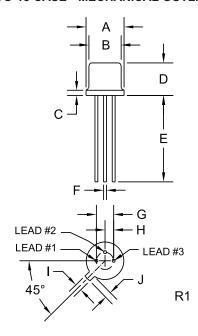
Operating and Storage Junction Temperature		T _J , T _{stg}	-65 to +200	°C			
ELECTRICAL CHARACTERISTICS: (T _A =25°C unless otherwise noted)							
SYMBOL	TEST CONDITIONS	MIN					
^I GSS	V_{GS} =20V, V_{DS} =0		0.25	nA			
I _{GSS}	V _{GS} =20V, V _{DS} =0, T _A =150°C		0.5	μA			
I _{DSS}	V_{DS} =15V, V_{GS} =0	8.0	80	mA			
I _{D(OFF)}	V_{DS} =15V, V_{GS} =10V		0.25	nA			
I _D (OFF)	V_{DS} =15V, V_{GS} =10V, T_{A} =150°C		0.5	μΑ			
BVGSS	I_{G} =1.0 μ A, V_{DS} =0	40		V			
V _{GS(OFF)}	V_{DS} =15V, I_{D} =0.5nA	0.8	4.0	V			
V _{DS(ON)}	I_D =5.0mA, V_{GS} =0		0.5	V			
rDS(ON)	V_{GS} =0, I_D =0, f=1.0kHz		60	Ω			
C _{rss}	V_{GS} =10V, V_{DS} =0, f=1.0MHz (2N	4858)	8.0	pF			
C_{rss} $V_{GS}=10V$, $V_{DS}=0$, $f=1.0MHz$ (2N4858A) 3.5				pF			
C_{iss} $V_{GS}=10V$, $V_{DS}=0$, f=1.0MHz (2N4858) 18				pF			
C_{iss} $V_{GS}=10V$, $V_{DS}=0$, $f=1.0MHz$ (2N4858A) 10				pF			
t_d $V_{DD}=10V, V_{GS(OFF)}=4.0V, I_D=5.0mA (2N4858)$				ns			
t_d	V _{DD} =10V, V _{GS(OFF)} =4.0V, I _D =5	.0mA (2N4858A)	8.0	ns			
t _r	V _{DD} =10V, V _{GS(OFF)} =4.0V, I _D =5	.0mA (2N4858)	10	ns			
t _r	V _{DD} =10V, V _{GS(OFF)} =4.0V, I _D =5	.0mA (2N4858A)	8.0	ns			
^t off	V _{DD} =10V, V _{GS(OFF)} =4.0V, I _D =5	.0mA (2N4858)	100	ns			
toff	V _{DD} =10V, V _{GS(OFF)} =4.0V, I _D =5	.0mA (2N4858A)	80	ns			

2N4858 2N4858A

N-CHANNEL SILICON JFET



TO-18 CASE - MECHANICAL OUTLINE



LEAD CODE:

- 1) Source 2) Drain
- 3) Gate

MARKING: FULL PART NUMBER

DIMENSIONS						
	INCHES		MILLIMETERS			
SYMBOL	MIN	MAX	MIN	MAX		
A (DIA)	0.209	0.230	5.31	5.84		
B (DIA)	0.178	0.195	4.52	4.95		
С	-	0.030	-	0.76		
D	0.170	0.210	4.32	5.33		
E	0.500	-	12.70	-		
F (DIA)	0.016	0.019	0.41	0.48		
G (DIA)	0.100		2.54			
Н	0.050		1.27			
I	0.036	0.046	0.91	1.17		
J	0.028	0.048	0.71	1.22		

TO-18 (REV: R1)

R0 (19-August 2010)

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

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