## 2N4857 2N4857A

# N-CHANNEL SILICON JFET



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## **DESCRIPTION:**

The CENTRAL SEMICONDUCTOR 2N4857 and 2N4857A are N-Channel silicon JFETs designed for analog switching and chopper applications.





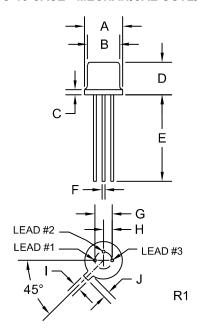
<b>MAXIMUM RATINGS:</b> (T <sub>A</sub> =25°C) Drain-Source Voltage		SYMBOL			UNITS
Drain-Source Voltage		$V_{DS}$		40	V
Drain-Gate Voltage		$V_{DG}$		40	V
Reverse Gate-Source Voltage		$V_{GSR}$		40	V
Forward Gate Current		$I_GF$		50	mA
Power Dissipation (T <sub>A</sub> =25°C)		$P_D$	3	360	mW
Operating and Storage Junction Temperature		$T_J$ , $T_{stg}$	-65 to +200		°C
ELECTRICA	AL CHARACTERISTICS: (TA=25°C u	ınless otherwise	noted)		
SYMBOL	TEST CONDITIONS		MIN	MAX	UNITS
$I_{GSS}$	$V_{GS}$ =20V, $V_{DS}$ =0			0.25	nA
$I_{GSS}$	$V_{GS}$ =20V, $V_{DS}$ =0, $T_{A}$ =150°C			0.5	μΑ
I <sub>DSS</sub>	$V_{DS}$ =15V, $V_{GS}$ =0		20	100	mA
I <sub>D(OFF)</sub>	$V_{DS}$ =15V, $V_{GS}$ =10V			0.25	nA
1	\/- ==15\/ \/ ===10\/ T.=150°C			0.5	

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# **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 (11-June 2012)

# **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 quick ship samples (2<sup>nd</sup> 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**

## Corporate Headquarters & Customer Support Team

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