

2N6605  
2N6606  
2N6607  
2N6608

**SILICON CONTROLLED RECTIFIER**  
**0.35 AMP, 30 THRU 200 VOLTS**



**TO-18 CASE**



[www.centrasemi.com](http://www.centrasemi.com)

**DESCRIPTION:**

The CENTRAL SEMICONDUCTOR 2N6605 Series types are hermetically sealed silicon controlled rectifiers manufactured in a TO-18 case, designed for control systems and sensing circuit applications.

**MARKING: FULL PART NUMBER**

**MAXIMUM RATINGS:** ( $T_C=25^{\circ}\text{C}$ )

	SYMBOL	2N6605	2N6606	2N6607	2N6608	UNITS
Peak Repetitive Off-State Voltage	$V_{\text{DRM}}, V_{\text{RRM}}$	30	60	100	200	V
Average On-State Current	$I_O$		0.35			A
Peak One Cycle Surge Current ( $t=8.3\text{ms}$ )	$I_{\text{TSM}}$		6.0			A
Peak Gate Voltage	$V_{\text{GM}}$		8.0			V
Operating Junction Temperature	$T_J$		-40 to +125			$^{\circ}\text{C}$
Storage Temperature	$T_{\text{stg}}$		-40 to +150			$^{\circ}\text{C}$

**ELECTRICAL CHARACTERISTICS:** ( $T_C=25^{\circ}\text{C}$  unless otherwise noted)

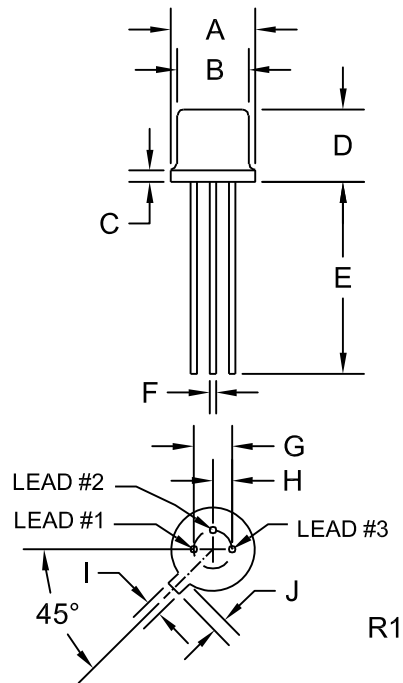
SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
$I_{\text{DRM}}$	Rated $V_{\text{DRM}}$ , $R_{\text{GK}}=1.0\text{K}\Omega$		120	nA
$I_{\text{RRM}}$	Rated $V_{\text{RRM}}$		250	nA
$I_{\text{GT}}$	$V_D=6.0\text{V}$ , $R_L=100\Omega$		200	$\mu\text{A}$
$V_{\text{GT}}$	$V_D=6.0\text{V}$ , $R_L=100\Omega$		0.8	V
$V_{\text{TM}}$	$I_T=2.0\text{A}$		2.0	V
$I_{\text{H}}$	$R_{\text{GK}}=1.0\text{K}\Omega$		5.0	mA

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#### TO-18 CASE - MECHANICAL OUTLINE



DIMENSIONS				
SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A (DIA)	0.209	0.230	5.31	5.84
B (DIA)	0.178	0.195	4.52	4.95
C	-	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	
H	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)

#### LEAD CODE:

- 1) Cathode
- 2) Gate
- 3) Anode

MARKING: FULL PART NUMBER

R0 (30-March 2011)

## OUTSTANDING SUPPORT AND SUPERIOR SERVICES



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### 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

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### 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

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### 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).

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### CONTACT US

#### Corporate Headquarters & Customer Support Team

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