#### CSHD3-100

SURFACE MOUNT SILICON HIGH VOLTAGE SCHOTTKY RECTIFIER 3.0 AMP, 100 VOLT



www.centralsemi.com

#### **DESCRIPTION:**

The CENTRAL SEMICONDUCTOR CSHD3-100 is a silicon Schottky rectifier designed for high voltage applications requiring a low forward voltage drop.



MARKING: FULL PART NUMBER

MAXIMUM RATINGS: (T<sub>C</sub>=25°C unless otherwise noted)

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	SYMBOL		UNITS			
Peak Repetitive Reverse Voltage	$V_{RRM}$	100	V			
Average Rectified Forward Current (T <sub>C</sub> =120°C)	IO	3.0	Α			
Peak Forward Surge Current, tp=10ms	IFSM	50	Α			
Peak Repetitive Reverse Surge Current, tp=2.0µs	I <sub>RRM</sub>	1.0	Α			
Critical Rate of Rise of Reverse Voltage	dv/dt	10,000	V/µs			
Operating and Storage Junction Temperature	T <sub>J</sub> , T <sub>stg</sub>	-65 to +150	°C			
Thermal Resistance	$\Theta$ JC	3.5	°C/W			

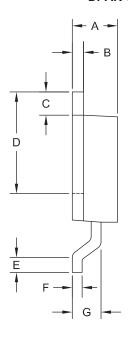
ELECTRIC	AL CHARACTERISTICS: (T <sub>C</sub> =25°	C unless otherwise no	ited)	
SYMBOL	TEST CONDITIONS	TYP	MAX	UNITS
$I_{R}$	V <sub>R</sub> =100V	9.0	30	μΑ
$I_R$	V <sub>R</sub> =100V, T <sub>C</sub> =125°C	6.7	10	mA
$V_{F}$	I <sub>F</sub> =3.0A	0.61	0.85	V
٧F	I <sub>F</sub> =3.0A, T <sub>C</sub> =125°C	0.52	0.80	V
CJ	V <sub>R</sub> =0, f=1.0MHz	676		pF

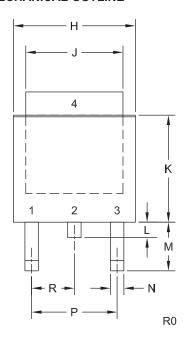
#### CSHD3-100

### SURFACE MOUNT SILICON **HIGH VOLTAGE SCHOTTKY RECTIFIER** 3.0 AMP, 100 VOLT



# **DPAK CASE - MECHANICAL OUTLINE**

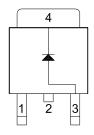




- **LEAD CODE:**1) No Connection
- 2) Cathode
- 3) Anode
- 4) Cathode

Pin 2 is common to the tab (4)

# **MARKING: FULL PART NUMBER**

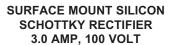


DIMENSIONS						
	INCHES		MILLIMETERS			
SYMBOL	MIN	MAX	MIN	MAX		
Α	0.083	0.108	2.10	2.75		
В	0.016	0.032	0.40	0.81		
С	0.035	0.063	0.89	1.60		
D	0.203	0.228	5.15	5.79		
E	0.020	-	0.51	-		
F	0.018	0.024	0.45	0.60		
G	0.051	0.071	1.30	1.80		
Н	0.248	0.268	6.30	6.81		
J	0.197	0.217	5.00	5.50		
K	0.209	0.245	5.30	6.22		
L	0.025	0.040	0.64	1.02		
M	0.090	0.115	2.30	2.91		
N	0.012	0.045	0.30	1.14		
Р	0.180		4.60			
R	0.090		2.30			
DPAK (REV: R0)						

R6 (26-February 2016)

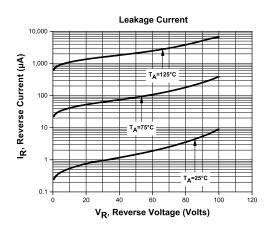
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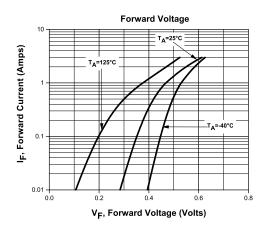
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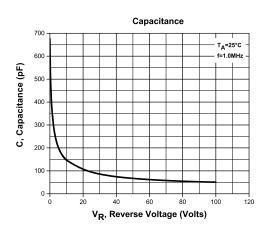


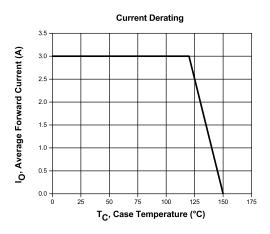


# TYPICAL ELECTRICAL CHARACTERISTICS









# **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

#### **CONTACT US**

# Corporate Headquarters & Customer Support Team

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