

DUAL, COMMON CATHODE SILICON SCHOTTKY RECTIFIERS 16 AMP, 400 THRU 100 VOLT



FEATURES:

- High reliability
- High current capability

Typical Thermal Resistance

Typical Thermal Resistance

• UL flammability classification 94V-O

Operating and Storage Junction Temperature

• Low power loss, high efficiency



www.centralsemi.com

UNITS

V

V

V A A

V/µs

°C

°C/W

°C/W

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CRSH16D-40FP series devices are dual silicon Schottky rectifiers designed for fast switching applications requiring a low forward voltage drop.

-65 to +150

4.0

60

MARKING: FULL PART NUMBER

- · Low forward voltage
- High surge capacity
- High voltage

MAXIMUM RATINGS: $(T_C=25^{\circ}C \text{ unless otherwise})$	CRSH16D -40FP	CRSH16D -60FP	CRSH16D -100FP	
Peak Repetitive Reverse Voltage	V _{RRM}	40	60	100
DC Blocking Voltage	VR	40	60	100
RMS Reverse Voltage	V _{R(RMS)}	26	42	80
Average Forward Current (T _C =90°C)	IO		16	
Peak Forward Surge Current (tp=8.3ms)	IFSM		150	
Critical Rate of Rise of Reverse Voltage	dv/dt		10,000	

ELECTRICAL CHARACTERISTICS PER DIODE: (T_C=25°C unless otherwise noted)

			H16D 0FP		H16D 0FP		H16D <u>0FP</u>	
SYMBOL	TEST CONDITIONS	TYP	MAX	TYP	MAX	TYP	MAX	UNITS
IR	V _R =Rated V _{RRM}	-	200	-	200	-	200	μA
I _R	V _R =Rated V _{RRM} , T _C =125°C	-	15	-	15	-	15	mA
VF	I _F =8.0A	-	0.65	-	0.75	-	0.85	V
VF	I _F =8.0A, T _C =125°C	-	0.57	-	0.65	-	0.75	V
V _F	I _F =16A	-	0.84	-	0.95	-	1.1	V
VF	I _F =16A, T _C =125°C	-	0.72	-	0.85	-	1.0	V
СЈ	V _R =4.0V, f=1.0MHz	300	-	300	-	300	-	pF

TJ, Tstq

 Θ_{JC}

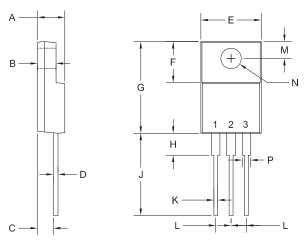
 Θ_{JA}

R2 (20-May 2015)





DUAL, COMMON CATHODE SILICON SCHOTTKY RECTIFIERS 16 AMP, 400 THRU 100 VOLT

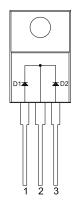


	DIM	ENSION	S	
	INCHES		MILLIM	ETERS
SYMBOL	MIN	MAX	MIN	MAX
А	0.165	0.202	4.20	5.12
В	0.090	0.130	2.30	3.30
С	0.098	0.122	2.50	3.10
D	-	0.031	-	0.80
E	0.382	0.418	9.70	10.63
F	0.238	0.276	6.06	7.00
G	0.583	0.640	14.80	16.25
Н	-	0.161	-	4.10
J	0.506	0.543	12.85	13.80
K	0.020	0.031	0.50	0.79
L	0.100		2.54	
М	0.120	0.140	3.05	3.55
N (DIA)	0.116	0.134	2.95	3.40
Р	0.039	0.058	1.00	1.47
TO-220FP (REV: R4)				

R4

TO-220FP CASE - MECHANICAL OUTLINE

PIN CONFIGURATION



LEAD CODE: 1) Anode D1 2) Cathode D1, D2 3) Anode D2

MARKING: FULL PART NUMBER

R2 (20-May 2015)

www.centralsemi.com

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 quick 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

ss your design challenges.

· Custom product packing

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

Custom bar coding for shipments

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).

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: <u>www.centralsemi.com/terms</u>





http://www.centralsemi.com

Product End of Life Notification

PDN ID:	PDN01228
Notification Date:	4/28/22
Last Buy Date:	10/28/22
Last Shipment Date	4/28/23

Summary: The CRSH16D-100FP Schottky rectifier is discontinued and now classified as End of Life (EOL).

Although Central Semiconductor Corp. makes every effort to continue to produce devices that have been proclaimed EOL (End of Life) by other manufacturers, it is an accepted industry practice to discontinue certain devices when customer demand falls below a minimum level of sustainability. Accordingly, the following product(s) have been transitioned to End of Life status as part of Central's ongoing Product Portfolio Management. Any replacement products are noted below. The effective date for placing last purchase orders will be six (6) months from the date of this notice and twelve (12) months from the notice date for final shipments, and minimum order quantities may apply. The last purchase and shipment dates may be extended if inventory is available.

* All Plating types (PBFREE,TIN/LEAD) for each item listed are included in this notice.

Central Part Number	Suggested Replacement
CRSH16D-100FP	N/A

Central would be happy to assist you by providing additional information or technical data to help locate an alternate source if we have no replacement available. If you would like assistance, please visit https://my.centralsemi.com/submit-inquiry?type=ER to submit an online inquiry.

DISCLAIMER: This End of Life (EOL) notification is in accordance with JEDEC standard JESD48 - Product Discontinuance. Central Semiconductor Corp. will make every effort to offer life-time buy (LTB) opportunities and/or offer replacement devices to existing customers for discontinued devices, however, one or both may not be possible for all devices. Please contact your local Central Semiconductor sales representative for LTB opportunities/additional information.