CSHD3-40

SURFACE MOUNT SILICON SCHOTTKY RECTIFIER 3.0 AMP, 40 VOLT



www.centralsemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CSHD3-40 is a highly reliable silicon Schottky rectifier designed for use in all types of commercial, industrial, entertainment, computer and automotive applications.

MARKING: FULL PART NUMBER



MAXIMUM RATINGS: (T_C=25°C unless otherwise noted)

SYMBOL		UNITS
V_{RRM}	40	V
IO	3.0	Α
I _{FSM}	75	Α
IRRM	1.0	Α
dv/dt	10,000	V/µs
T _J , T _{stg}	-65 to +150	°C
Θ JC	5.5	°C/W
	VRRM IO IFSM IRRM dv/dt T _J , T _{stg}	VRRM 40 IO 3.0 IFSM 75 IRRM 1.0 dv/dt 10,000 TJ, T _{stg} -65 to +150

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

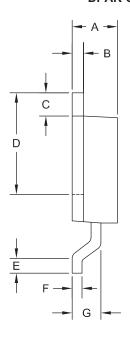
SYMBOL I _R	TEST CONDITIONS V _R =40V	TYP 9.0	MAX 100	UNITS μΑ
IR	V _R =40V, T _C =125°C	7.6	10	mA
V_{F}	I _F =3.0A	0.48	0.65	V
V_{F}	I _F =3.0A, T _C =125°C	0.41	0.60	V
$C_{,J}$	V _R =0, f=1.0MHz	476		pF

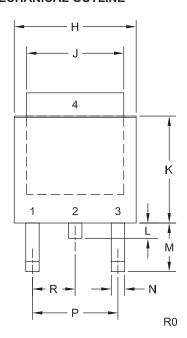
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DPAK CASE - MECHANICAL OUTLINE



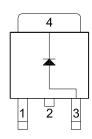


LEAD CODE:

- 1) No Connection
- 2) Cathode 3) Anode
- 4) Cathode

Pin 2 is common to the tab (4)

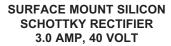
MARKING: FULL PART NUMBER



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)							

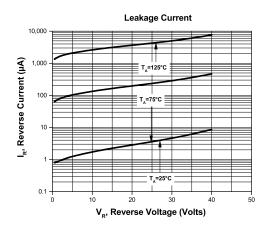
R10 (26-February 2016)

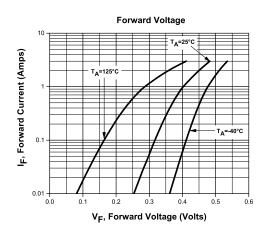
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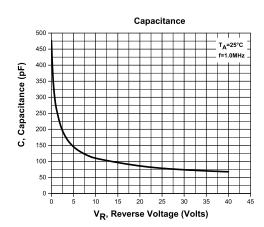


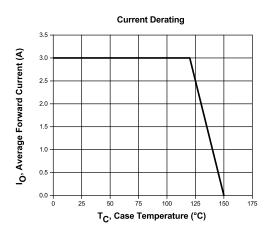


TYPICAL ELECTRICAL CHARACTERISTICS









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

CONTACT US

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