CSHD10-45L

SURFACE MOUNT SILICON POWER SCHOTTKY RECTIFIER 10 AMP, 45 VOLT



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DESCRIPTION:

The CENTRAL SEMICONDUCTOR CSHD10-45L is a silicon power Schottky rectifier designed for power applications requiring a low forward voltage drop.





 $\textbf{MAXIMUM RATINGS:} \ (T_{\hbox{\scriptsize C}} = 25 ^{\circ} \hbox{\scriptsize C unless otherwise noted})$

	SYMBOL		UNITS
Peak Repetitive Reverse Voltage	V_{RRM}	45	V
Average Rectified Forward Current (T _C =120°C)	IO	10	Α
Peak Forward Surge Current, tp=10ms	IFSM	200	Α
Peak Repetitive Reverse Surge Current, tp=2.0µs	I _{RRM}	1.0	Α
Critical Rate of Rise of Reverse Voltage	dv/dt	10,000	V/µs
Operating and Storage Junction Temperature	T _J , T _{stg}	-65 to +150	°C
Thermal Resistance	ΘJC	3.5	°C/W

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

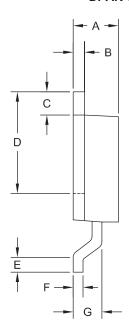
SYMBOL	TEST CONDITIONS	TYP	MAX	UNITS
I_R	V _R =45V	40	100	μΑ
I_{R}	V _R =45V, T _C =125°C		15	mA
V_{F}	I _F =10A	0.575	0.75	V
V_{F}	I _F =10A, T _C =125°C		0.55	V

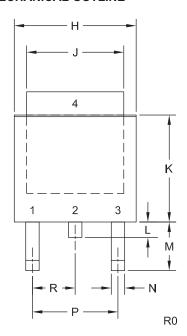
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DPAK CASE - MECHANICAL OUTLINE



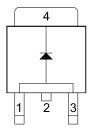


LEAD CODE:

- 1) Anode
- 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)							

R7 (21-January 2013)

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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