

CSICD05-1200 (5A) CSICD10-1200 (10A)

DDPAK-2L



1200V Silicon Carbide Schottky Rectifiers in DDPAK-2L package

Central Semiconductor's **CSICD05-1200** (5A) and **CSICD10-1200** (10A) devices are 1200 volt silicon carbide Schottky rectifiers designed for high frequency systems where energy efficiency and thermal performance are critical design parameters for extreme environments. Central's new DDPAK-2L package eliminates potential voltage arcing experienced when using a standard DPAK package at high voltages.

Features:

- True 2 lead DDPAK package
- Low switching loss
- Stability over wide range of temperatures

Applications:

- Power inverters
- Motor drives
- Switch-mode power supplies
- Power factor correction (PFC)

For more information



**Challenges
welcome**

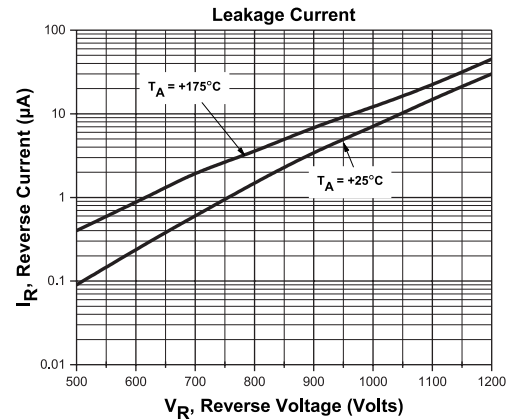
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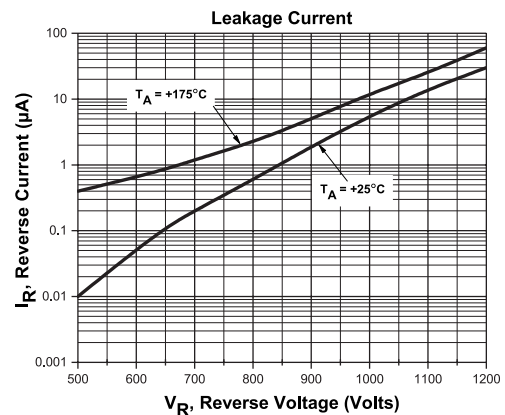
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Typical Electrical Characteristics

CSICD05-1200 Output Characteristics



CSICD10-1200 Output Characteristics



Central Part Number	Maximum Ratings (TC = 25°C unless otherwise noted)					Electrical Characteristics (TJ = 25°C unless otherwise noted)					
	VRRM	IO	PD	TJ, Tstg	IFSM	VF		@ IF	IR		@ VR
	(V) MAX	TC = 142°C (A) MAX	(W) MAX	(°C) MAX	tp = 8.3 (A) MAX	(V) TYP	(V) MAX	(A)	(μA) TYP	(μA) MAX	(V)
CSICD05-1200	1200	5.0	150	-55 to +175	40	1.5 2.25	1.7 3.0	5.0	30	190	1200
CSICD10-1200	1200	10	150	-55 to +175	80	1.5 2.3	1.7 3.0	10	30	250	1200

Services:

- Bonded Inventory
- Custom Electrical Screening
- Custom Electrical Characteristic Curves
- SPICE Models
- Custom Packaging
- Package Base Options
- Custom Device Development/ Multi Discrete Modules (MDM™)

Weblink/Samples:



For more information
or to request
samples visit:

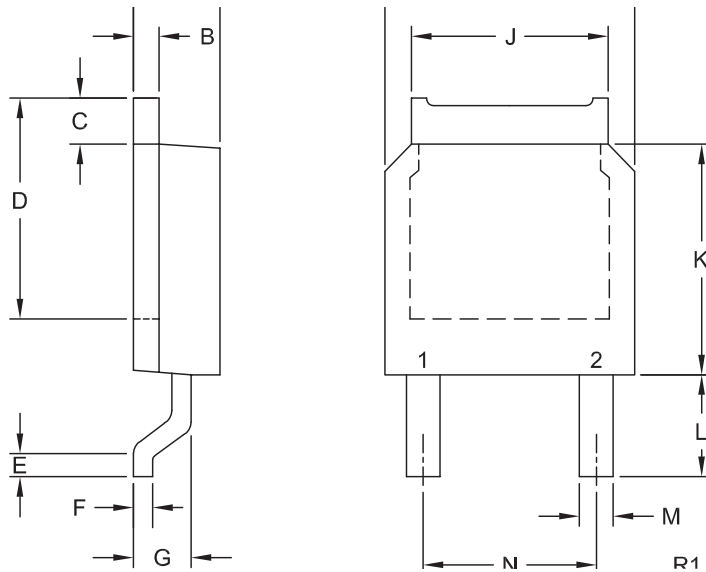
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CSICD05-1200 (5A) CSICD10-1200 (10A)

1200V Silicon Carbide Schottky Rectifiers in DPAK-2L package

Mechanical Drawing - DPAK-2L

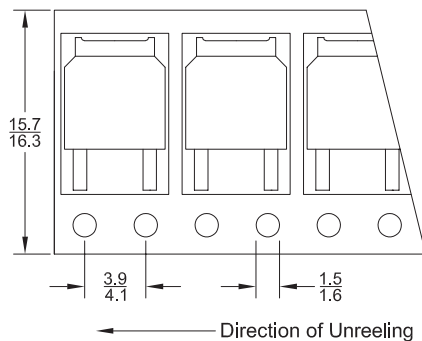


SYMBOL	DIMENSIONS			
	INCHES		MILLIMETERS	
A	0.080	0.100	2.03	2.54
B	0.018	0.035	0.46	0.89
C	0.035	0.050	0.89	1.27
D	0.230		5.84	
E	0.021	0.027	0.53	0.69
F	0.015	0.025	0.38	0.64
G	0.051	0.071	1.30	1.80
H	0.250	0.270	6.35	6.86
J	0.195	0.215	4.95	5.46
K	0.230	0.250	5.84	6.35
L	0.087	0.118	2.21	3.00
M	0.025	0.045	0.64	1.14
N	0.180		4.57	

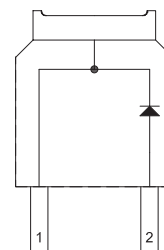
DPAK-2L (REV: R1)

Tape Dimensions and Orientation

Tape Dimensions and Orientation: DPAK-2L 16mm Tape
(Dimensions in mm)



Pinout



LEAD CODE:

- 1) Cathode
- 2) Anode
- Tab) Cathode

MARKING CODES:

CSICD05-1200: SICD0512
CSICD10-1200: SICD1200

SPICE Models

SPICE Models for these devices are now available.

Visit:

www.centrasemi.com/SPICE

Packaging Base / Ordering Information

13" Reel	Quantity Per TR13 Reel	Central Item No.
	2500	CSICD05-1200 CSICD10-1200

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Sample devices available upon request. To order samples visit: www.centrasemi.com/info/CSICD

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Questions?
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145 Adams Avenue • Hauppauge • New York • 11788 • USA • Tel:(631) 435-1110 • Fax:(631) 435-1824

PB 5A-10A SiC-DPAK-2L