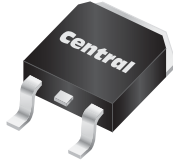


CSHDD16-40C CSHDD16-100C
CSHDD16-60C CSHDD16-200C

**SURFACE MOUNT SILICON
DUAL, COMMON CATHODE
SCHOTTKY RECTIFIERS
16 AMP, 40 THRU 200 VOLT**

D²PAK!
SUPER POWER



D²PAK CASE



www.centrasemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CSHDD16-40C series devices are silicon Schottky rectifiers designed for surface mount applications requiring a low forward voltage drop.

MARKING:

CSHDD16-40C: CSHDD16-40C or CSHDD16-40
CSHDD16-60C: CSHDD16-60C or CSHDD16-60
CSHDD16-100C: CSHDD16-100C or CSHDD16-100
CSHDD16-200C: CSHDD16-200C or CSHDD16-200

FEATURES:

- High reliability
- Low forward voltage
- High current capability
- High surge capacity
- UL flammability classification 94V-O
- Superior lot to lot consistency
- Low power loss, high efficiency
- High voltage

MAXIMUM RATINGS: ($T_A=25^{\circ}\text{C}$ unless otherwise noted)

	SYMBOL	CSHDD16				UNITS
		-40C	-60C	-100C	-200C	
Peak Repetitive Reverse Voltage	V_{RRM}	40	60	100	200	V
DC Blocking Voltage	V_R	40	60	100	200	V
RMS Reverse Voltage	$V_R(RMS)$	28	42	70	140	V
Average Forward Current ($T_L=75^{\circ}\text{C}$)	I_O			16		A
Peak Forward Surge Current, $t_p=8.3\text{ms}$	I_{FSM}			150		A
Operating and Storage Junction Temperature	T_J, T_{stg}		-65 to +175			$^{\circ}\text{C}$
Typical Thermal Resistance	θ_{JL}			2.0		$^{\circ}\text{C/W}$
Typical Thermal Resistance	θ_{JA}			50		$^{\circ}\text{C/W}$

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

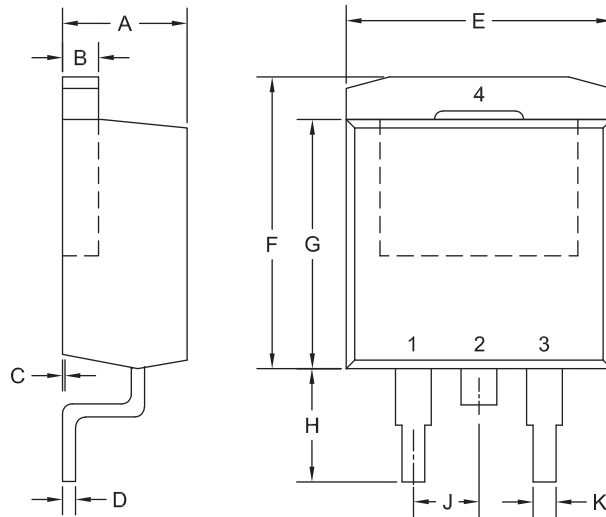
		CSHDD16								
		-40C		-60C		-100C		-200C		
SYMBOL	TEST CONDITIONS	TYP	MAX	TYP	MAX	TYP	MAX	TYP	MAX	UNITS
I _R	V _R =Rated V _{RRM}	-	50	-	50	-	50	-	50	μA
I _R	V _R =Rated V _{RRM} , T _J =100°C	-	20	-	20	-	20	-	20	mA
V _F	I _F =8.0A	0.49	0.7	0.58	0.75	0.75	0.8	0.83	0.9	V
V _F	I _F =16A	0.6	0.84	0.75	0.95	0.83	1.10	0.91	1.2	V
C _J	V _R =4.0V, f=1.0MHz	379	-	280	-	353	-	166	-	pF

CSHDD16-40C CSHDD16-100C
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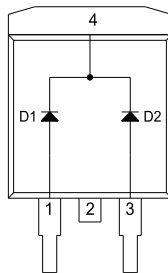
**SURFACE MOUNT SILICON
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16 AMP, 40 THRU 200 VOLT**



D²PAK CASE - MECHANICAL OUTLINE



R3



LEAD CODE:
1) Anode D1
2) Cathode D1, D2
3) Anode D2
4) Cathode D1, D2
Pin 2 is Common to the Ta

DIMENSIONS				
SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.163	0.189	4.14	4.80
B	0.045	0.055	1.14	1.40
C	0.000	0.010	0.00	0.25
D	0.012	0.028	0.30	0.70
E	0.386	0.415	9.80	10.55
F	0.378	0.417	9.60	10.60
G	0.335	0.358	8.50	9.10
H	0.188	0.236	4.78	6.00
J	0.093	0.108	2.35	2.75
K	0.030	0.035	0.75	0.90

D2PAK (REV: R3)

R9 (11-January 2018)

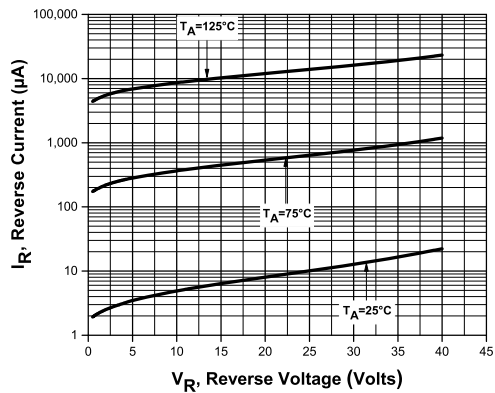
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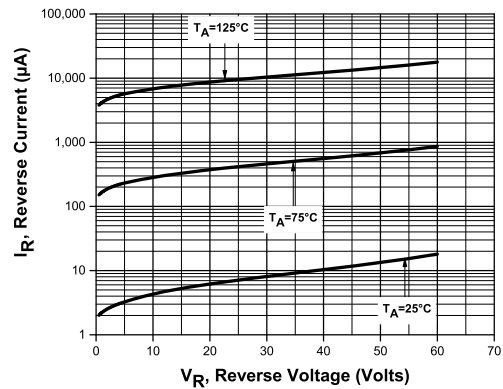


TYPICAL ELECTRICAL CHARACTERISTICS

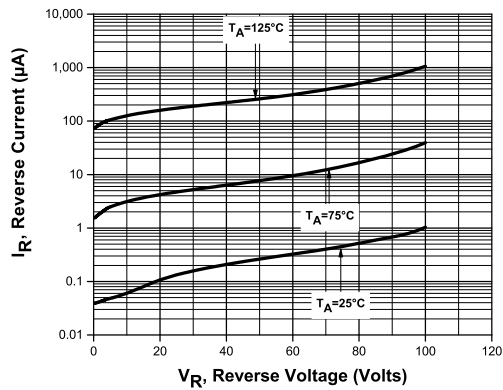
Leakage Current for CSHDD16-40C



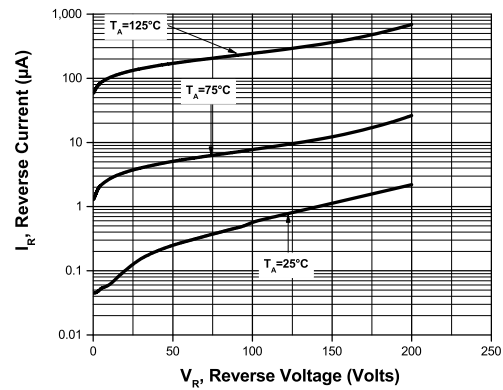
Leakage Current for CSHDD16-60C



Leakage Current for CSHDD16-100C



Leakage Current for CSHDD16-200C



R9 (11-January 2018)

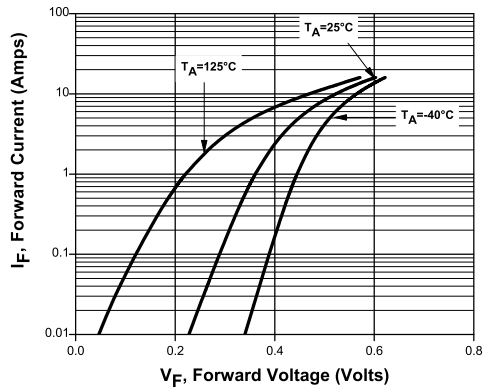
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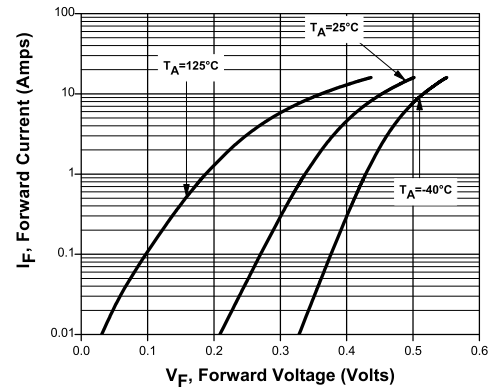


TYPICAL ELECTRICAL CHARACTERISTICS

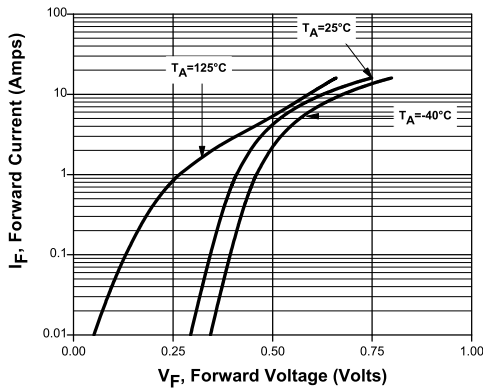
Forward Voltage for CSHDD16-40C per diode



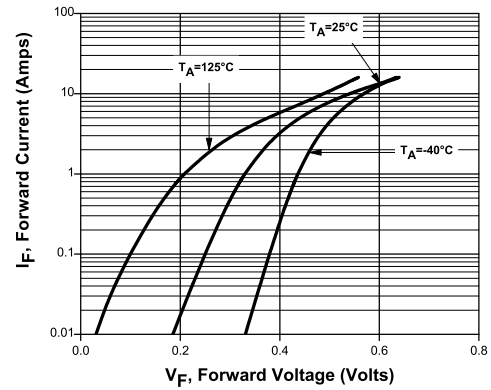
Forward Voltage for CSHDD16-40C, two diodes in parallel



Forward Voltage for CSHDD16-60C per diode



Forward Voltage for CSHDD16-60C, two diodes in parallel



R9 (11-January 2018)

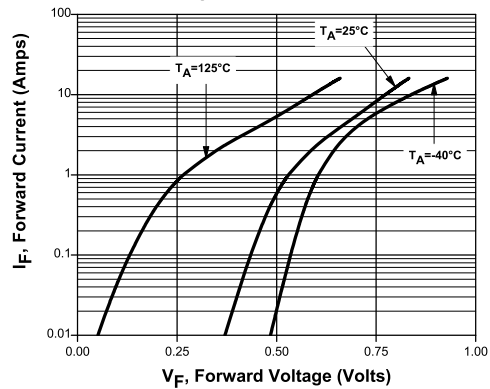
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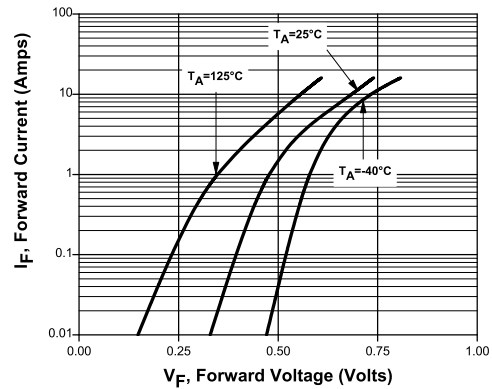


TYPICAL ELECTRICAL CHARACTERISTICS

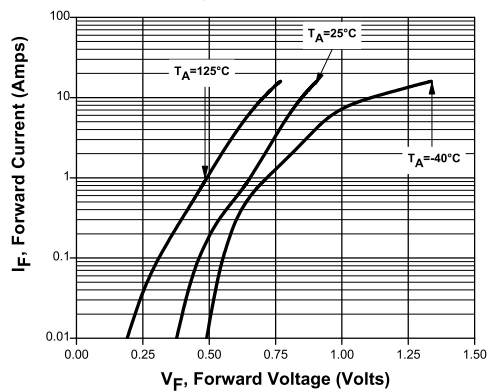
Forward Voltage for CSHDD16-100C per diode



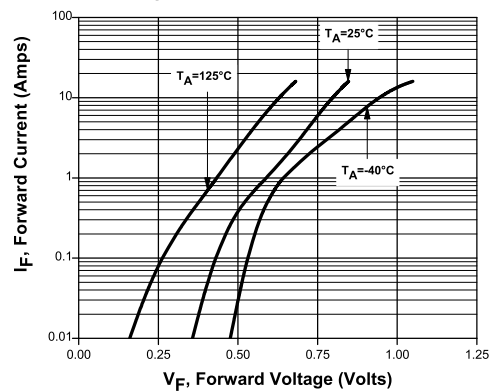
Forward Voltage for CSHDD16-100C, two diodes in parallel



Forward Voltage for CSHDD16-200C per diode



Forward Voltage for CSHDD16-200C, two diodes in parallel



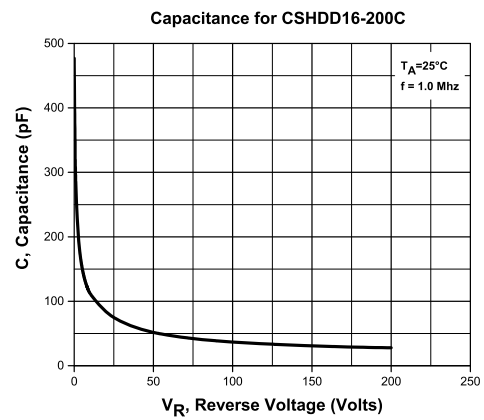
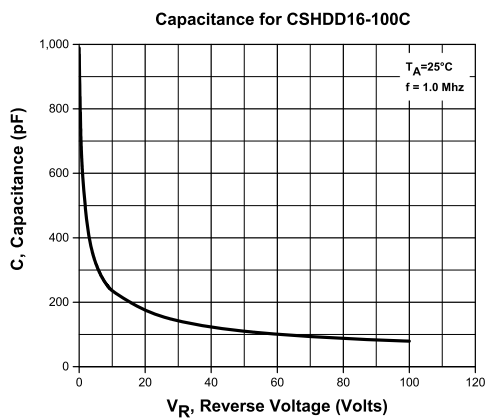
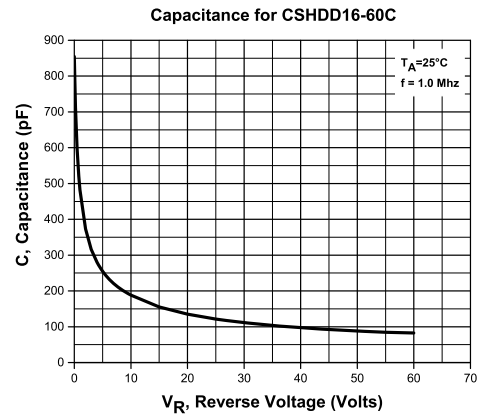
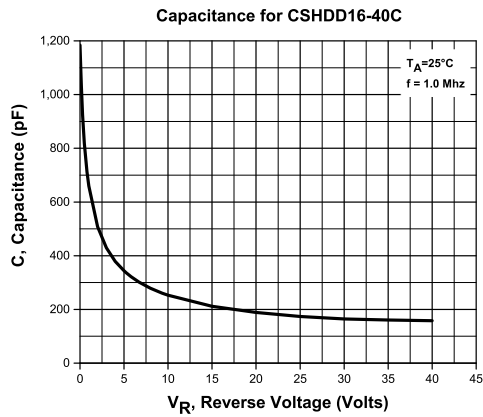
R9 (11-January 2018)

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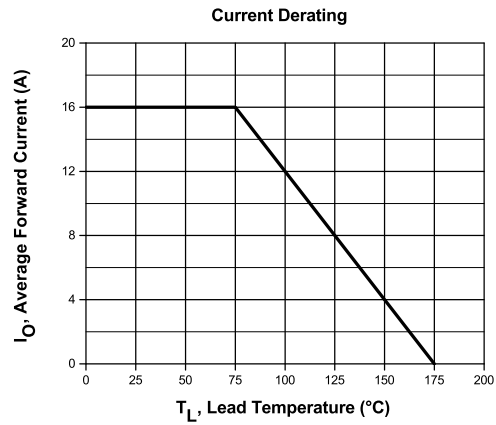
R9 (11-January 2018)

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TYPICAL ELECTRICAL CHARACTERISTICS



R9 (11-January 2018)

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 (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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