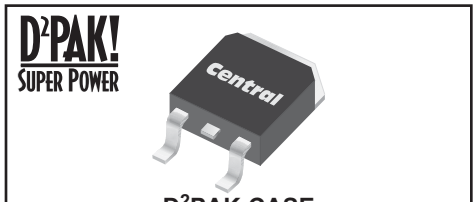
CSHDD16-40C CSHDD16-60C
CSHDD16-100C

SURFACE MOUNT
DUAL, COMMON CATHODE
SILICON SCHOTTKY RECTIFIERS
16 AMP, 40 THRU 100 VOLTS



D²PAK CASE

Central Semiconductor Corp.

www.centralsemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CSHDD16-40C Series types are Silicon Schottky Rectifiers designed for surface mount applications requiring a low forward voltage drop. To order devices on 24mm Tape and Reel (800/13" Reel), add TR13 suffix to part number.

MARKING: FULL PART NUMBER

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 effeciency
- High voltage

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

	SYMBOL	CSHDD16-40C	CSHDD16-60C	CSHDD16-100C	UNITS
Peak Repetitive Reverse Voltage	V_{RRM}	40	60	100	V
DC Blocking Voltage	V_R	40	60	100	V
RMS Reverse Voltage	$V_{R(RMS)}$	28	42	70	V
Average Forward Current (T_C=90°C)	I_O		16		A
Peak Forward Surge Current, tp=8.3ms	I_{FSM}		150		A
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
Typical Thermal Resistance	Θ_{JC}		2.0		°C/W
Typical Thermal Resistance	Θ_{JA}		50		°C/W

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

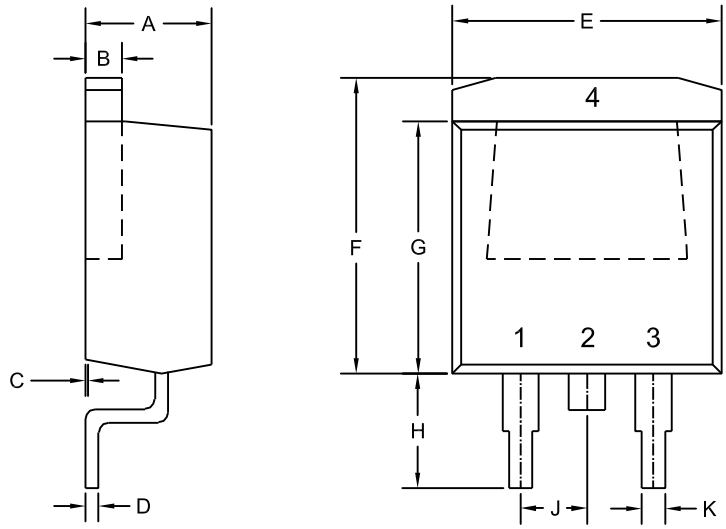
		CSHDD16-40C		CSHDD16-60C		CSHDD16-100C		
SYMBOL	TEST CONDITIONS	TYP	MAX	TYP	MAX	TYP	MAX	UNITS
I_R	V_R=Rated V_{RRM}		100		100		100	μA
I_R	V_R=Rated V_{RRM}, T_C= 125°C		15		15		15	mA
V_F	I_F=8.0A		0.65		0.75		0.85	V
V_F	I_F=8.0A, T_C=125°C		0.57		0.65		0.75	V
V_F	I_F=16A		0.84		0.95		1.10	V
V_F	I_F=16A, T_C=125°C		0.72		0.85		1.00	V
C_J	V_R=4.0V, f=1.0MHz	300		300		300		pF

R4 (17-February 2010)

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

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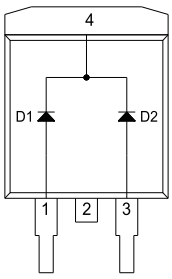
D²PAK CASE - MECHANICAL OUTLINE



R2

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

MARKING: FULL PART NUMBER



DIMENSIONS				
	INCHES		MILLIMETERS	
SYMBOL	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	0.409	9.80	10.40
F	0.378	0.417	9.60	10.60
G	0.335	0.358	8.50	9.10
H	0.197	0.236	5.00	6.00
J	0.093	0.108	2.35	2.75
K	0.030	0.035	0.75	0.90

D2PAK (REV: R2)