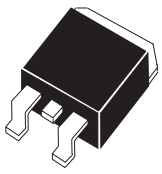
CSHDD16-40A
CSHDD16-60A
CSHDD16-100A

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



D²PAK CASE

Central™
Semiconductor Corp.

FEATURES:

- **HIGH RELIABILITY**
- **HIGH CURRENT CAPABILITY**
- **UL FLAMMABILITY CLASSIFICATION 94V-O**
- **LOW POWER LOSS, HIGH EFFICIENCY**
- **LOW FORWARD VOLTAGE**
- **HIGH SURGE CAPACITY**
- **SUPERIOR LOT TO LOT CONSISTENCY**
- **HIGH VOLTAGE**

DESCRIPTION:

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

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

	SYMBOL	CSHDD16 -40A	CSHDD16 -60A	CSHDD16 -100A	UNITS
Peak Repetitive Reverse Voltage	V_{RRM}	40	60	100	V
DC Blocking Voltage	V_R	40	60	100	V
RMS Reverse Voltage	$V_{R(RMS)}$	26	42	80	V
Average Forward Current (T_C=90°C)	I_O		16		A
Peak Forward Surge Current (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	ΘJC		2.0		°C/W
Typical Thermal Resistance	ΘJA		50		°C/W

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

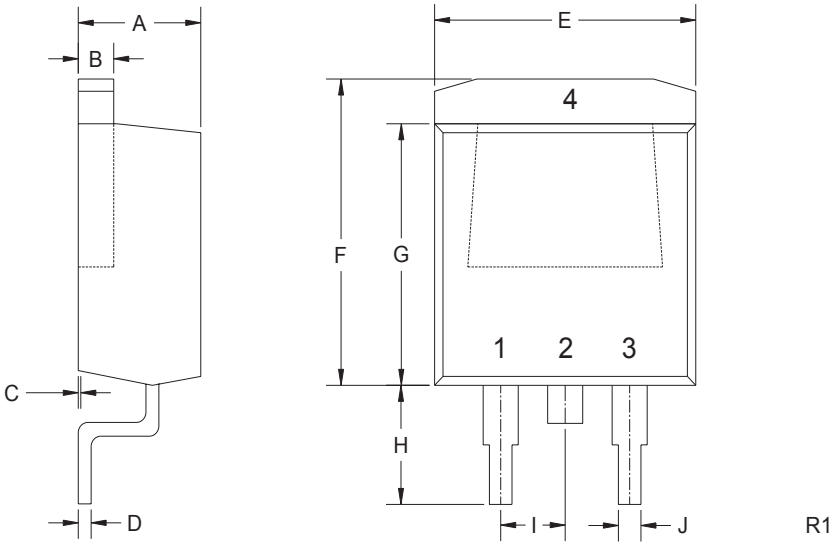
		CSHDD16 -40A		CSHDD16 -60A		CSHDD16 -100A		
SYMBOL	TEST CONDITIONS	TYP	MAX	TYP	MAX	TYP	MAX	UNITS
I_R	V_R=Rated V_{RRM}		100		100		100	μA
I_R	V_R=Rated V_{RRM}, T_C= 125°C		15		15		15	mA
V_F	I_F=8.0A		0.65		0.75		0.85	V
V_F	I_F=8.0A, T_C= 125°C		0.57		0.65		0.75	V
V_F	I_F=16A		0.84		0.95		1.10	V
V_F	I_F=16A,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

Central™
Semiconductor Corp.

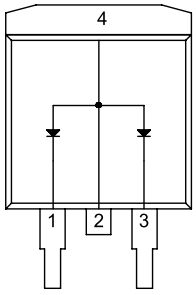
CSHDD16-40A
CSHDD16-60A
CSHDD16-100A

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

D²PAK CASE - MECHANICAL OUTLINE



R1



LEAD CODE:

1) CATHODE 1
2) ANODE 1,2
3) CATHODE 2
4) ANODE 1,2

PIN 2 IS COMMON TO THE TAB(4)

DIMENSIONS				
	INCHES		MILLIMETERS	
SYMBOL	MIN	MAX	MIN	MAX
A	0.173	0.189	4.39	4.80
B	0.047	0.055	1.19	1.40
C	± 0.012		± 0.30	
D	0.011	0.026	0.28	0.66
E	0.387	0.409	9.83	10.39
F	0.378	0.418	9.60	10.62
G	0.335	0.357	8.51	9.07
H	0.197	0.236	5.00	5.99
I	0.092	0.108	2.34	2.74
J	-	0.035	-	0.89

D2PAK (REV: R1)

R0 (31-August 2001)