### TOSHIBA Contact Us Direct Link 🔶 GO SEMICONDUCTOR Semicon TOP 🔯 Information Read Me Search Data Sheet Search in this web site Diodes SEMICONDUCTOR BULLETIN EYE SEPTEMBER 2005 Vol.158 Data Sheets Realizes $I_{F(AV)} = 5A$ Rectifier Diodes L-FLAT Package for High-Speed, High-Efficiency Diodes Variable Capacitance Diodes Part Number: CLH Series **•** RF Switch Diodes Zener Diodes Switching Diodes Schottky Barrier Diodes Photodiodes Documents PW-Mold -FLAT Packages **Reliability Information Overseas Manufacturing** Toshiba has developed a new series of L-FLAT package for high-speed, high-efficiency diodes (HED) that offers an average **Companies Products Information** forward current I<sub>F</sub> of 5 A as the newest member of its FLAT series packages (US-FLAT/S-FLAT/M-FLAT). The new package, CLH series, is available in a wide lineup of six types featuring $V_{RRM}$ of 200 V, 300 V and 400 V at $I_F$ = 3A and Update History $V_{RRM}$ of 200 V, 300 V and 400 V at $I_F$ = 5A. A $V_{RRM}$ = 600 V type is also currently being developed and scheduled for mass production in December 2005.

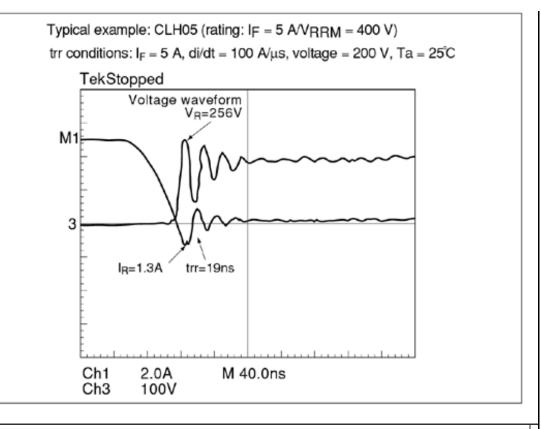
#### [Applications]

- Power factor improvement circuits (PFC)
- Switching mode power supply application

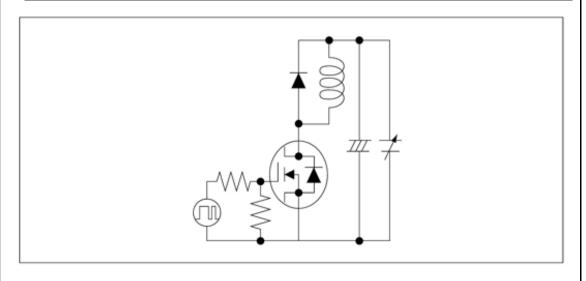
#### atures

- 1. The CLH series offers the most power dissipation in the FLAT series, realizing  $I_{F(AV)} = 5$  A with HED.
- 2. The dissipation is the same as with PW-MOLD, realized with a two-pin package. The thermal resistance is improved by a large cathode frame, which is connected with Cu connector between the anode terminal and the chip.
- Suitable for power factor improvement circuits (PFC). The low I<sub>R</sub> and fast trr reduce power dissipation, and noise is decreased.

## everse Recovery Characteristics (trr)



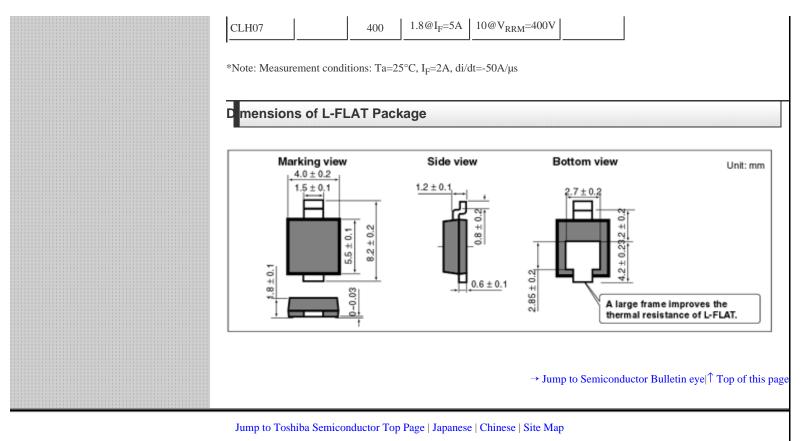
# Neasurement Circuit Drawing



# Lneup

Part Number	Maximum rating		Characteristics		
1 art runnoer	I <sub>F(AV)</sub> (A)	V <sub>RRM</sub> (V)	V <sub>F</sub> (V)Max	I <sub>RRM</sub> (µA)Max	trr(ns)Max*
CLH01		200	$0.98@I_F=3A$	$10@V_{RRM} = 200V$	
CLH02	3	300	1.3@I <sub>F</sub> =3A	10@V <sub>RRM</sub> =300V	
CLH03		400	1.8@I <sub>F</sub> =3A	10@V <sub>RRM</sub> =400V	25
CLH05		200	0.98@I <sub>F</sub> =5A	10@V <sub>RRM</sub> =200V	35
CLH06	5	300	1.3@I <sub>F</sub> =5A	10@V <sub>RRM</sub> =300V	

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