



# LHC RHC

## HIGH VOLTAGE DIFFUSED SILICON RECTIFIERS



- SMALL SIZE MOLDED PACKAGE
- PRV 8,000 TO 40,000 VOLTS
- FAST RECOVERY (RHC SERIES)
- LOW LEAKAGE

EDI Type No.	Peak Reverse Voltage PRV (Volts)	Max. Fwd. Voltage Drop at 25 °C And I <sub>o</sub> VF (Volts)	Case Style
Avg. Fwd. Current, I <sub>o</sub> at 50°C 25mA			
LHC25-8	8,000	30	A
-10	10,000	30	A
-12	12,000	30	A
-15	15,000	60	B
-20	20,000	60	B
-25	25,000	60	B
-30	30,000	90	C
-35	35,000	90	C
-40	40,000	90	C
RHC25-8	8,000	30	A
-10	10,000	30	A
-12	12,000	30	A
-15	15,000	60	B
-20	20,000	60	B
-25	25,000	60	B
-30	30,000	90	C
-35	35,000	90	C
-40	40,000	90	C

ELECTRICAL CHARACTERISTICS (at T <sub>A</sub> =25 °C Unless Otherwise Specified)	LHC SERIES STANDARD RECOVERY
Max. DC Reverse Current @ PRV and 25 °C, I <sub>R</sub>	1 μA
Max. DC Reverse Current @ PRV and 100 °C, I <sub>R</sub>	40 μA
Ambient Operating Temperature Range, T <sub>A</sub>	-55 °C to +150 °C
Storage Temperature Range, T <sub>STG</sub>	-55 °C to +150 °C
Max. One-Half Cycle Surge Current, I <sub>FM</sub> (Surge) @ 60Hz	3 Amps

ELECTRICAL CHARACTERISTICS (at T <sub>A</sub> =25 °C Unless Otherwise Specified)	RHC SERIES FAST RECOVERY
Max. DC Reverse Current @ PRV and 25 °C, I <sub>R</sub>	1 μA
Max. DC Reverse Current @ PRV and 100 °C, I <sub>R</sub>	60 μA
Max. Reverse Recovery Time, t <sub>rr</sub> (Fig.4)	100 nanosec
Ambient Operating Temperature Range, T <sub>A</sub>	-55 °C to +125 °C
Storage Temperature Range, T <sub>STG</sub>	-55 °C to +150 °C
Max. One-Half Cycle Surge Current, I <sub>FM</sub> (Surge) @ 60Hz	3 Amps

**NOTES:**

1. Maximum lead and terminal temperature for soldering, 3/8 inch from case, 5 seconds at 250 °C.
2. If operated over 10,000 v/inch in length, devices should be immersed in oil or re-encapsulated.

EDI reserves the right to change these specifications at any time without notice.

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FIG.1

NON-REPETITIVE SURGE CURRENT RATINGS

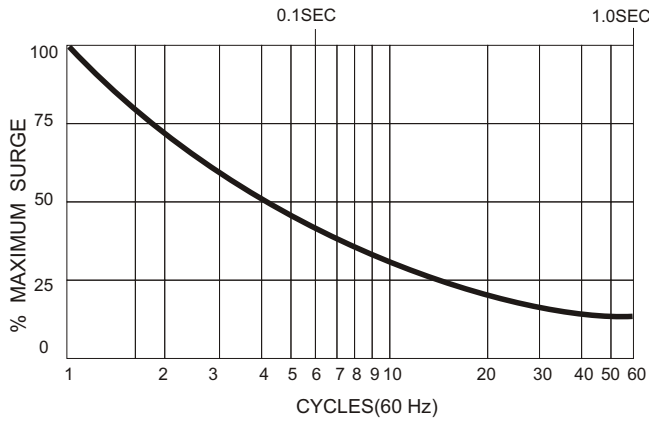


FIG.2

OUTPUT CURRENT vs AMBIENT TEMPERATURE

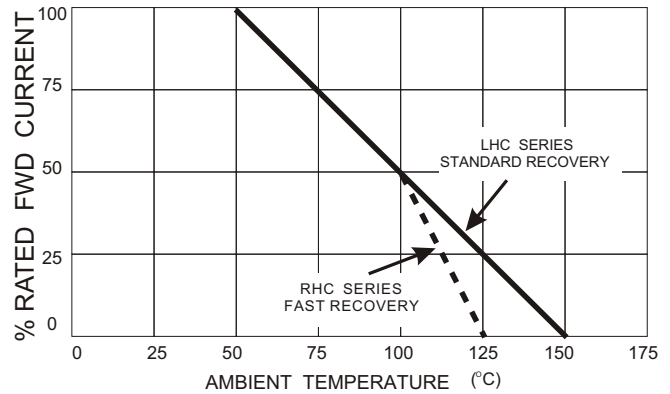
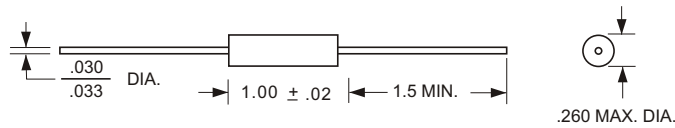


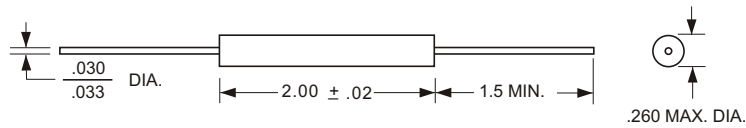
FIG.3  
PACKAGE STYLE

CASE STYLE A



ALL DIMENSIONS  
IN INCHES

CASE STYLE B



CASE STYLE C

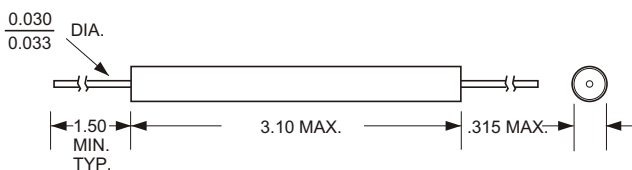
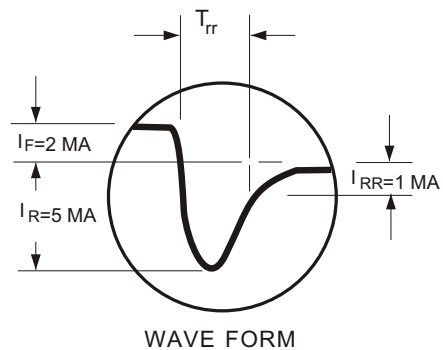


FIG.4  
RECOVERY WAVE FORM



RECOVERY TEST CIRCUIT

