

**VOLTAGE RANGE: 400 - 1000V**

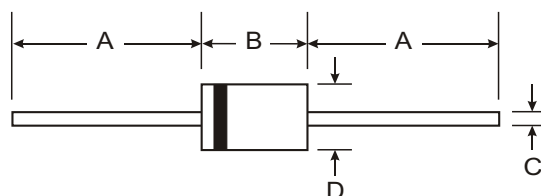
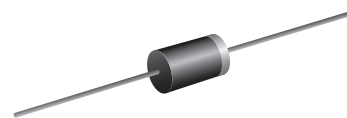
**CURRENT: 0.6A**

### Features

- High current capability
- High surge current capability
- High reliability
- Low reverse current
- Low forward voltage drop
- Fast switching for high efficiency

### Mechanical Data

- Case : DO-41 Molded plastic
- Epoxy : UL94V-O rate flame retardant
- Lead : Axial lead solderable per MIL-STD-202, Method 208 guaranteed
- Polarity : Color band denotes cathode end
- Mounting position : Any
- Weight : 0.465 gram



DO-41		
Dim	Min	Max
A	25.40	—
B	4.06	5.21
C	0.71	0.864
D	2.00	2.72
All Dimensions in mm		

### Maximum Ratings and Electrical Characteristics T<sub>A</sub> = 25°C unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

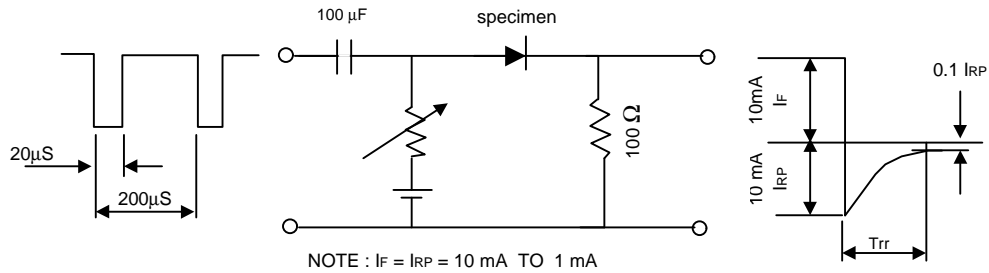
Characteristic	Symbol	RH1	RH1A	RH1B	RH1C	Unit
Maximum Peak Reverse Voltage	V <sub>RRM</sub>	400	600	800	1000	V
Maximum Peak Reverse Surge Voltage	V <sub>RSM</sub>	450	650	850	1050	V
Maximum Average Forward Current <small>, T<sub>a</sub> = 50°C</small>	I <sub>F(AV)</sub>	0.6				A
Maximum Peak Forward Surge Current ( 50 Hz, Half-cycle, Sine wave, Single Shot )	I <sub>FSM</sub>	35				A
Maximum Forward Voltage at I <sub>F</sub> = 0.6 A	V <sub>F</sub>	1.3				V
Maximum Reverse Current at V <sub>R</sub> = V <sub>RM</sub> <small>T<sub>a</sub> = 25 °C</small>	I <sub>R</sub>	5.0				μA
Maximum Reverse Current at V <sub>R</sub> = V <sub>RM</sub> <small>T<sub>a</sub> = 150 °C</small>	I <sub>R(H)</sub>	70				μA
Maximum Reverse Recovery Time (Note 1)	T <sub>rr</sub>	4.0				μs
Junction Temperature Range	T <sub>J</sub>	- 40 to + 150				°C
Storage Temperature Range	T <sub>STG</sub>	- 40 to + 150				°C

#### Note :

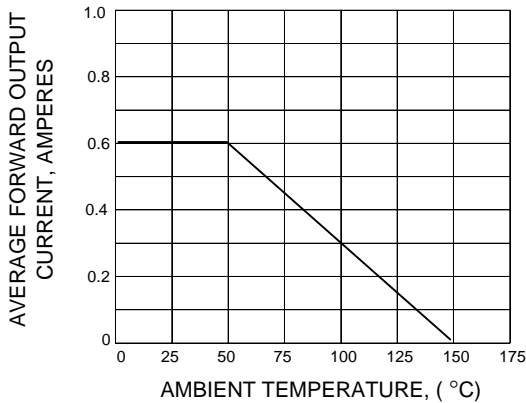
( 1 ) Reverse Recovery Test Conditions : I<sub>F</sub> = 10 mA, I<sub>RP</sub> = 10 mA.

## RATING AND CHARACTERISTIC CURVES ( RH1 - RH1C )

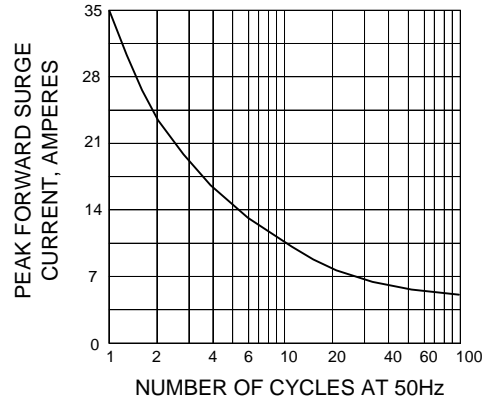
**FIG.1 - REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM**



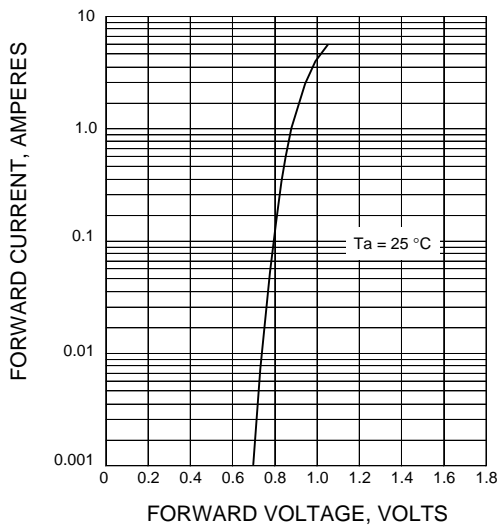
**FIG.2 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT**



**FIG.3 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT**



**FIG.4 - TYPICAL FORWARD CHARACTERISTICS**



**FIG.5 - TYPICAL REVERSE CHARACTERISTICS**

