

# RH1 - RH1C

**PRV : 400 - 1000 Volts**

**Io : 0.6 Ampere**

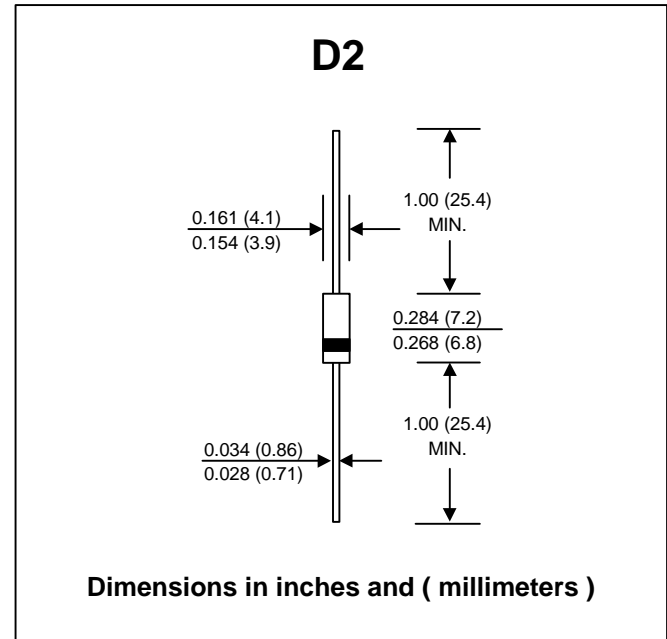
## FEATURES :

- \* High current capability
- \* High surge current capability
- \* High reliability
- \* Low reverse current
- \* Low forward voltage drop
- \* Fast switching for high efficiency
- \* **Pb / RoHS Free**

## MECHANICAL DATA :

- \* Case : D2 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

# FAST RECOVERY RECTIFIER DIODES



## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

RATING	SYMBOL	RH1	RH1A	RH1B	RH1C	UNIT
Maximum Peak Reverse Voltage	VRRM	400	600	800	1000	V
Maximum Peak Reverse Surge Voltage	VRSM	450	650	850	1050	V
Maximum Average Forward Current , Ta = 50°C	IF(AV)	0.6				A
Maximum Peak Forward Surge Current ( 50 Hz, Half-cycle, Sine wave, Single Shot )	IFSM	35				A
Maximum Forward Voltage at IF = 0.6 A	VF	1.3				V
Maximum Reverse Current at VR = VRM Ta = 25 °C	IR	5.0				µA
Maximum Reverse Current at VR = VRM Ta = 150 °C	IR(H)	70				µA
Maximum Reverse Recovery Time (Note 1)	Trr	4.0				µs
Junction Temperature Range	TJ	- 40 to + 150				°C
Storage Temperature Range	TSTG	- 40 to + 150				°C

### Note :

( 1 ) Reverse Recovery Test Conditions : IF = 10 mA, IRP = 10 mA.

## RATING AND CHARACTERISTIC CURVES ( RH1 - RH1C )

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

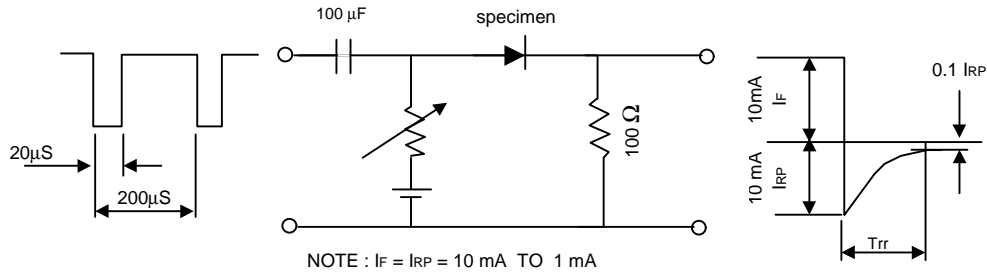


FIG.2 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

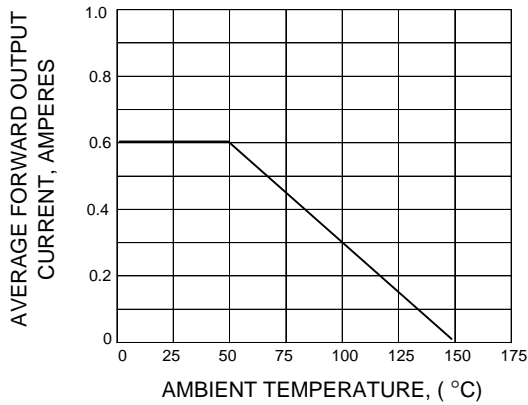


FIG.3 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

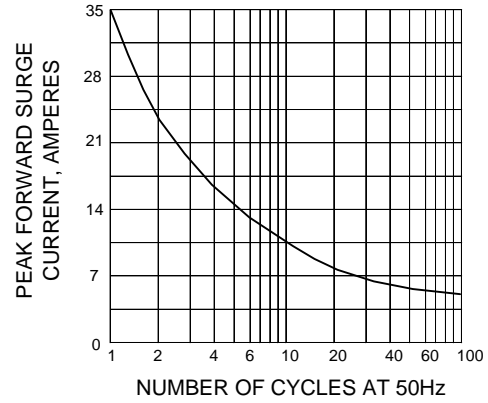


FIG.4 - TYPICAL FORWARD CHARACTERISTICS

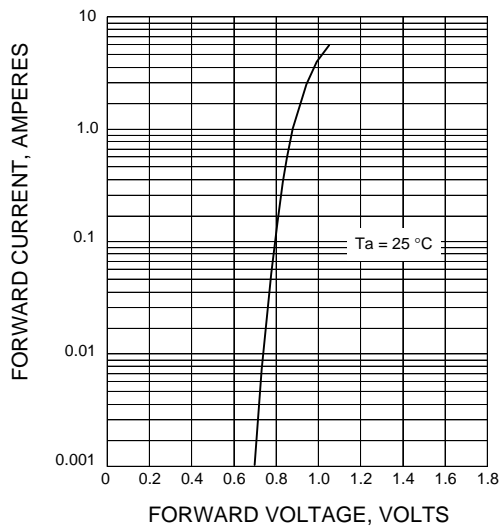


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

