

# BYW100-200

**PRV : 200 Volts**  
**Io : 1.5 Ampere**

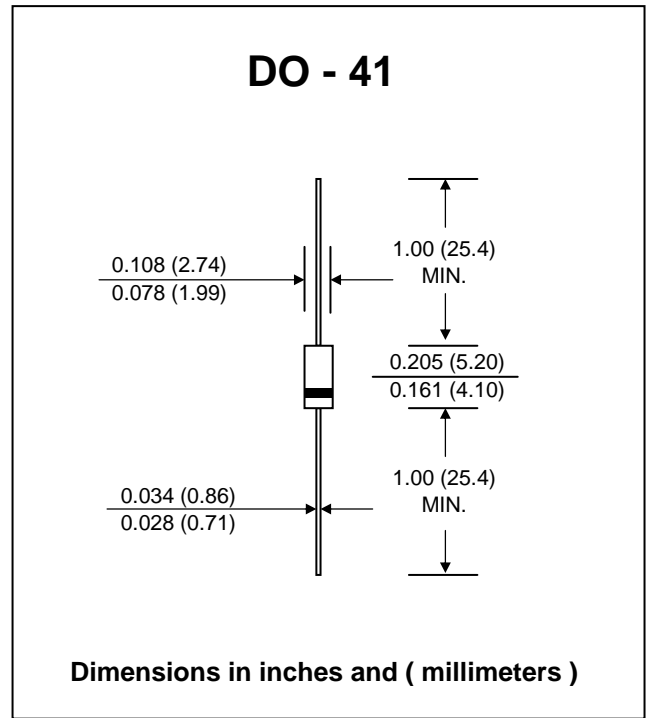
**FEATURES :**

- \* High current capability
- \* High surge current capability
- \* High reliability
- \* Low reverse current
- \* Low forward voltage drop
- \* Super fast recovery time
- \* Pb / RoHS Free

**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 : 0.34 gram

## HIGH EFFICIENCY FAST RECOVERY DIODE



### 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%.

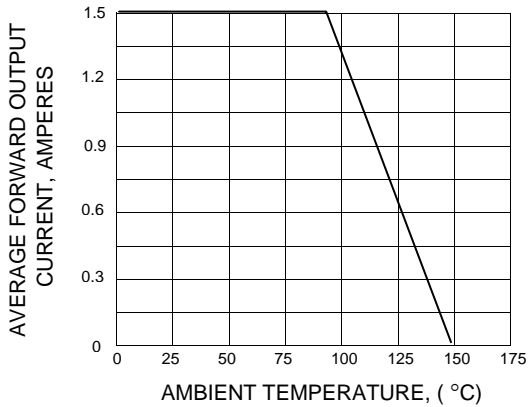
RATING		SYMBOL	VALUE	UNIT
Maximum Repetitive Peak Reverse Voltage		VRRM	200	V
Maximum Average Forward Current (10mm Lead Length) Ta = 95 °C		IF(AV)	1.5	A
Maximum Surge Non-Repetitive Forward Current ( tp=10 ms Sinusoidal )		IFSM	50	A
Maximum Peak Forward Voltage	IF = 4.5 A., Tj = 25 °C	VF	1.2	V
	IF = 1.5 A., Tj = 100 °C		0.85	
Maximum Reverse Leakage Current at VR = VRRM	Tj = 25 °C	IR	10	µA
	Tj = 100 °C		0.5	mA
Maximum Reverse Recovery Time ( Note 1 )		Trr	35	ns
Maximum operating Junction Temperature		TJ	150	°C
Storage Temperature Range		TSTG	- 65 to + 150	°C

**Notes :**

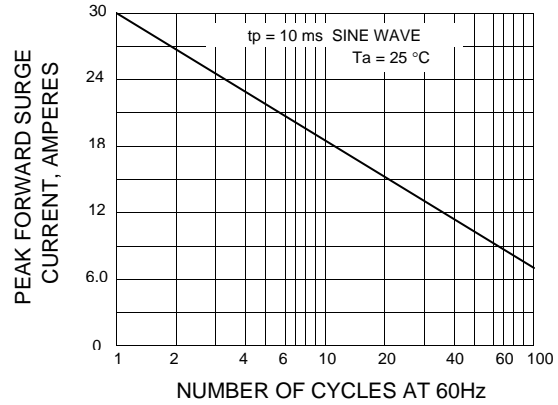
- ( 1 ) Reverse Recovery Test Conditions : IF =1A dIF/dt = - 50A/µs VR = 30V
- ( 2 ) Measured at 1.0 MHz and applied reverse voltage of 4.0 VDC

**RATING AND CHARACTERISTIC CURVES ( BYW100-200)**

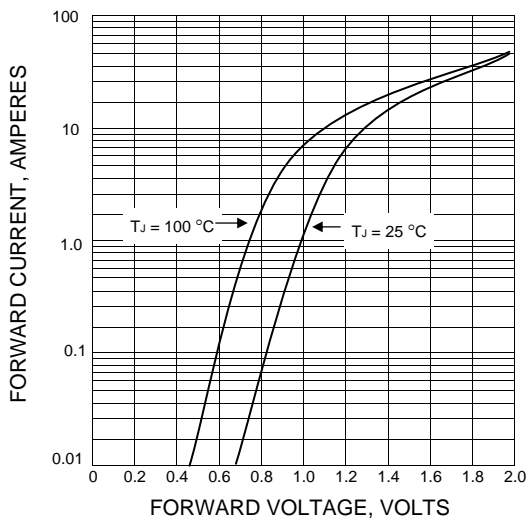
**FIG. 1 DERATING CURVE FOR OUTPUT RECTIFIED CURRENT**



**FIG. 2 MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT**



**FIG. 3 TYPICAL FORWARD CHARACTERISTICS**



**FIG. 4 TYPICAL REVERSE CHARACTERISTICS**

