

BYW98-50S ~ BYW98-200S

PRV : 50 ~ 200 Volts
Io : 3 Amperes

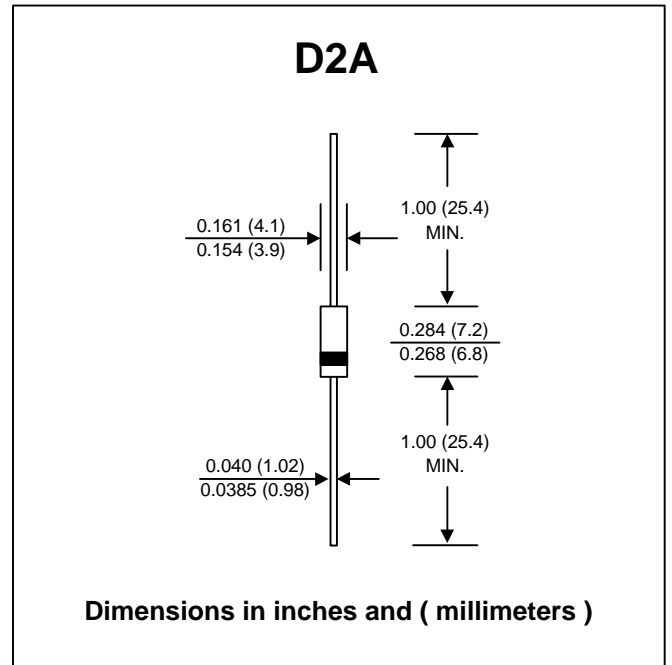
FEATURES :

- * 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 : D2A 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 : 0.645 gram

SUPER FAST RECOVERY 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 | BYW 98-50S | BYW 98-100S | BYW 98-150S | BYW 98-200S | UNIT |
|---|--------|---------------|-------------|-------------|-------------|-------|
| Maximum Repetitive Peak Reverse Voltage | VRRM | 50 | 100 | 150 | 200 | Volts |
| Maximum Average Forward Current | IF(AV) | 3.0 | | | | Amps. |
| Maximum Peak Forward Surge Current | IFSM | 70 | | | | Amps. |
| Maximum Forward Voltage at IF = 3 Amps. ; TJ = 100 °C | VF | 0.85 | | | | Volt |
| Maximum Reverse Current at VRRM , TJ = 100 °C | IR | 1.0 | | | | mA |
| Maximum Reverse Recovery Time , TJ = 25 °C (1) | Trr | 35 | | | | ns |
| Junction Temperature Range | TJ | - 65 to + 150 | | | | °C |
| Storage Temperature Range | TSTG | - 65 to + 150 | | | | °C |

NOTE :

(1) Reverse Recovery Test Conditions : IF = 0.5A , IR = 1A , Irr = 0.25A

RATING AND CHARACTERISTIC CURVES (BYW98-50S ~ BYW98-200S)

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

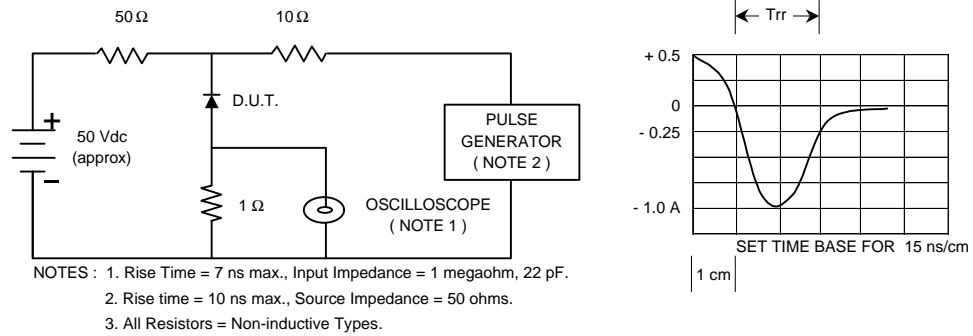


FIG.2 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

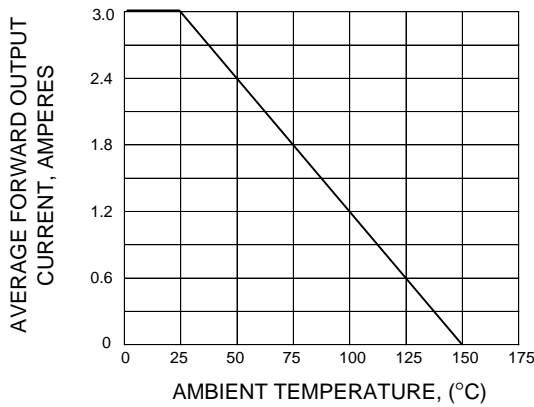


FIG.3 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

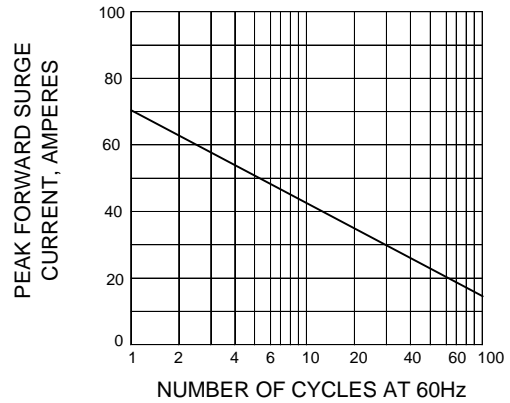


FIG.4 - TYPICAL FORWARD CHARACTERISTICS

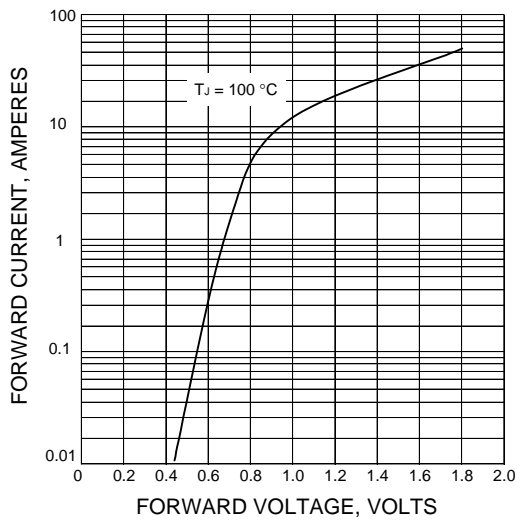


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

