

BYW98-50S ~ BYW98-200S

PRV : 50 ~ 200 Volts
I_o : 3 Amperes

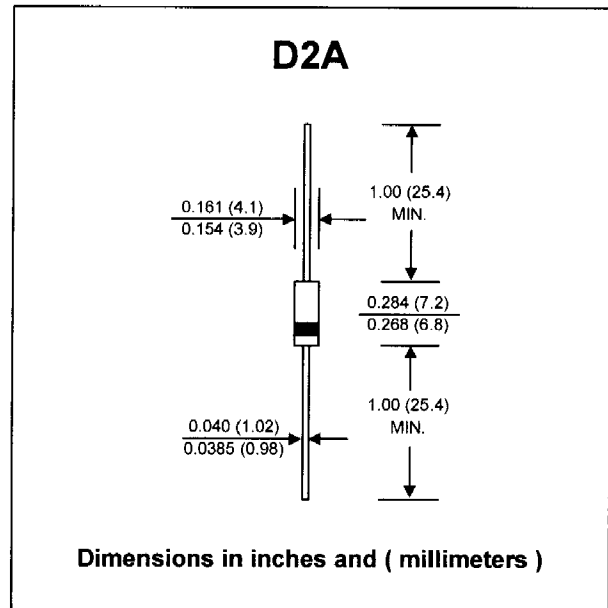
FEATURES :

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

MECHANICAL DATA :

- * Case : 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



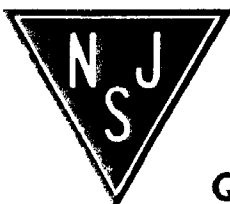
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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	V _{RRM}	50	100	150	200	Volts
Maximum Average Forward Current	I _{F(AV)}	3.0				Amps.
Maximum Peak Forward Surge Current	I _{FSM}	70				Amps.
Maximum Forward Voltage at I _F = 3 Amps. ; T _J = 100 °C	V _F	0.85				Volt
Maximum Reverse Current at V _{RRM} , T _J = 100 °C	I _R	1.0				mA
Maximum Reverse Recovery Time , T _J = 25 °C (1)	T _{rr}	35				ns
Junction Temperature Range	T _J	- 65 to + 150				°C
Storage Temperature Range	T _{STG}	- 65 to + 150				°C

NOTE :

(1) Reverse Recovery Test Conditions : I_F = 0.5A , I_R = 1A , I_{rr} = 0.25A



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

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

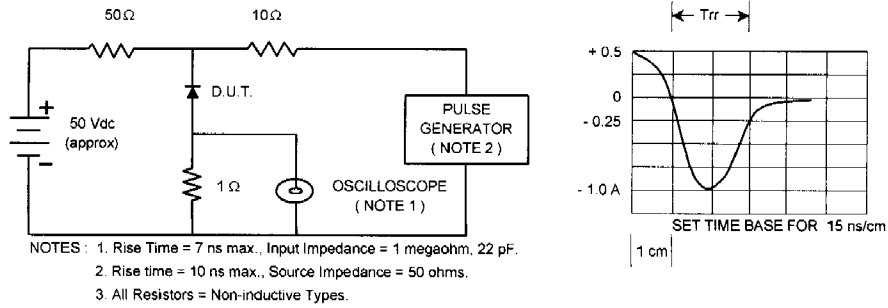


FIG.2 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

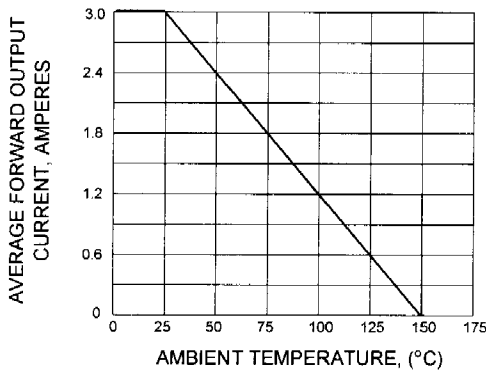


FIG.3 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

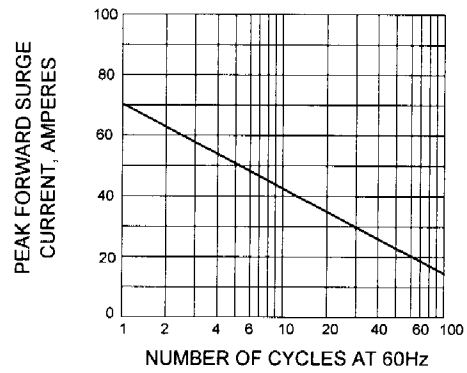


FIG.4 - TYPICAL FORWARD CHARACTERISTICS

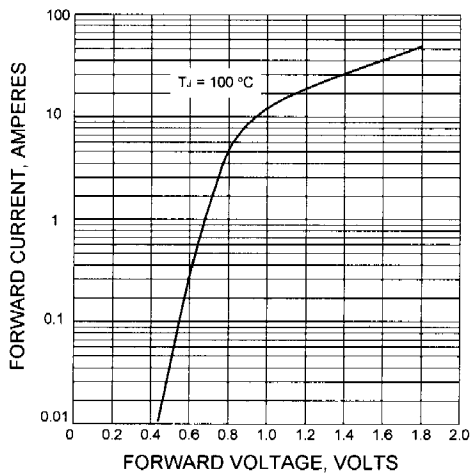


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

