

RS3FS

PRV : 1500 Volts
Io : 2.0 Amperes

FEATURES :

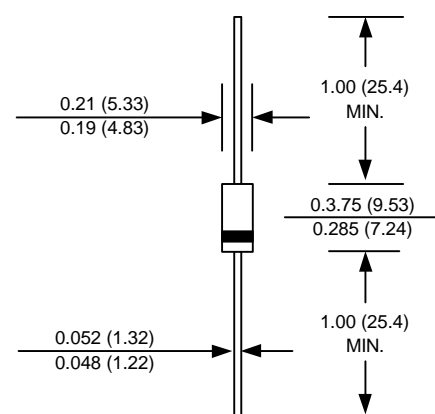
- * High current capability
- * High surge current capability
- * High reliability
- * Low reverse current
- * Low forward voltage drop
- * Fast switching for high efficiency
- * Pb / RoHS Free

MECHANICAL DATA :

- * Case : DO-201AD 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 : 1.21 grams

FAST RECOVERY RECTIFIER

DO-201AD



Dimensions in inches and (millimeters)

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 Peak Reverse Voltage	V_{RM}	1500	V
Maximum Peak Reverse Surge Voltage	V_{RSM}	1500	V
Maximum Average Forward Current $T_a = 50\text{ }^\circ\text{C}$	$I_{F(AV)}$	2.0	A
Maximum Peak Forward Surge Current (50 Hz, Half-cycle, Sine wave, Single Shot)	I_{FSM}	50	A
Maximum Forward Voltage at $I_F = 3.0\text{ A}$	V_F	1.1	V
Maximum Reverse Current at $V_R = V_{RM}$ $T_a = 25\text{ }^\circ\text{C}$	I_R	50	μA
Maximum Reverse Current at $V_R = V_{RM}$ $T_a = 100\text{ }^\circ\text{C}$	$I_{R(H)}$	500	μA
Maximum Reverse Recovery Time (Note 1)	T_{rr}	2.0	μs
Junction Temperature Range	T_J	- 40 to + 150	$^\circ\text{C}$
Storage Temperature Range	T_{STG}	- 40 to + 150	$^\circ\text{C}$

Notes :

(1) Reverse Recovery Test Conditions : $I_F = 100\text{ mA}$, $I_{RP} = 100\text{ mA}$.

RATING AND CHARACTERISTIC CURVES (RS3FS)

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

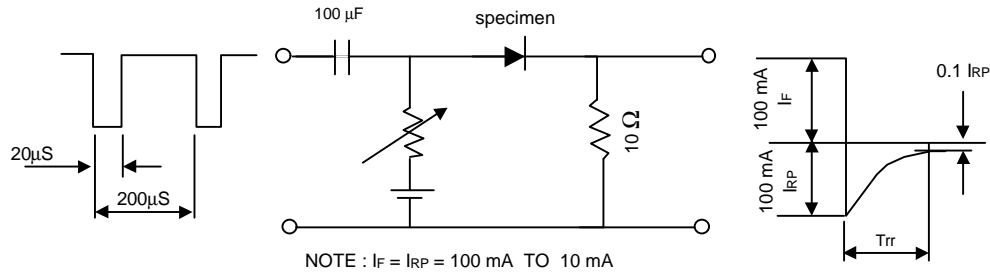


FIG.2 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

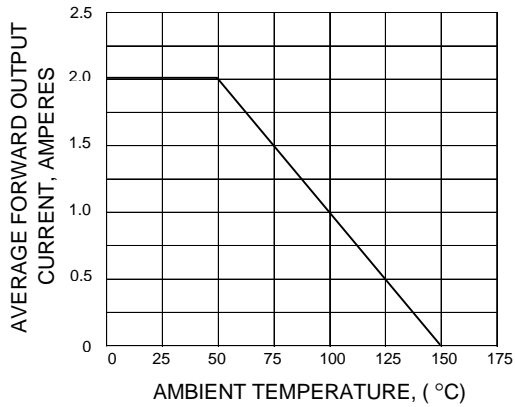


FIG.3 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

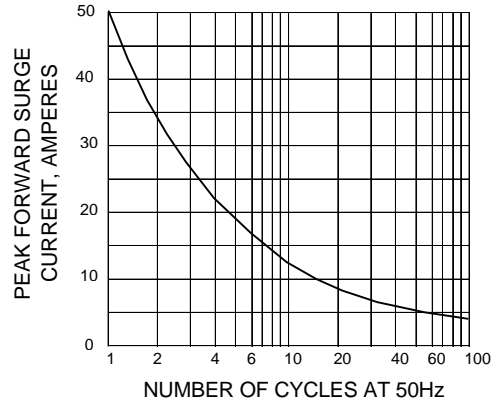


FIG.4 - TYPICAL FORWARD CHARACTERISTICS

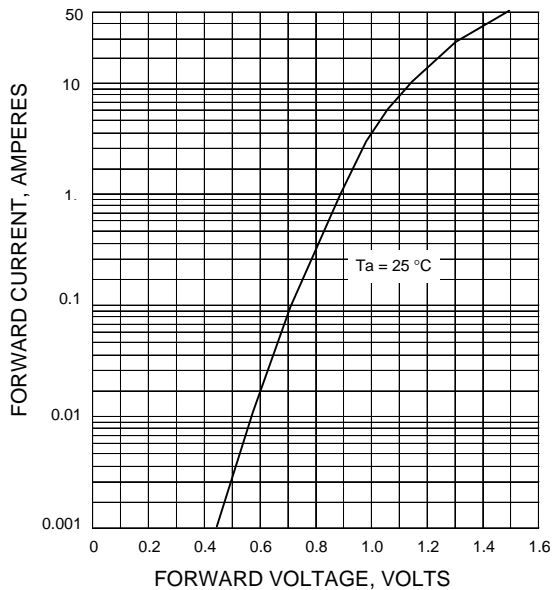


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

