

RH4F

GLASS PASSIVATED JUNCTION SILICON RECTIFIER DIODES

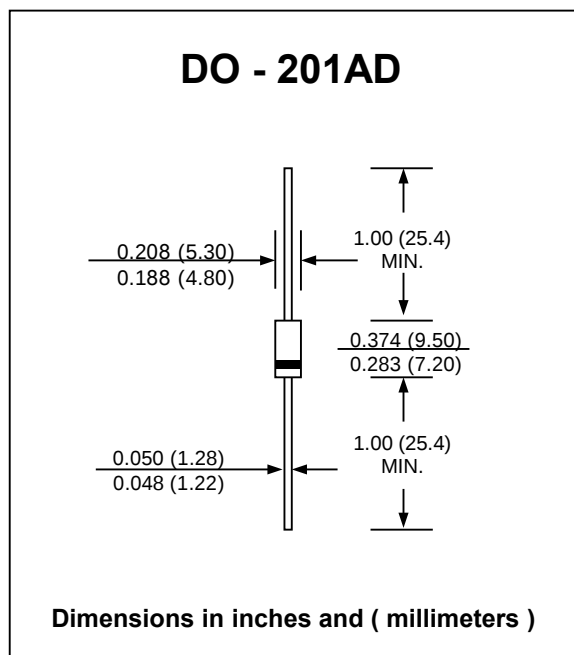
PRV : 1500 Volts
Io : 2.5 Amperes

FEATURES :

- * Glass passivated junction chips
- * High current capability
- * High surge current capability
- * High reliability
- * Low reverse current
- * Low forward voltage drop
- * **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 : 0.0012 grams



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	V _{RRM}	1500	V
Maximum RMS Voltage	V _{RMS}	1125	V
Maximum DC Blocking Voltage	V _{DC}	1500	V
Maximum Average Forward Current 0.375"(9.5mm) Lead Length Ta = 25 °C	I _F	2.5	A
Peak Forward Surge Current 10ms Single half sine wave Superimposed on rated load (JEDEC Method)	I _{FSM}	50	A
Maximum Forward Voltage at I _F = 2.5 Amps.	V _F	1.5	V
Maximum DC Reverse Current Ta = 25 °C at rated DC Blocking Voltage Ta = 100 °C	I _R	10	μA
	I _{R(H)}	350	μA
Maximum Reverse Recovery Time (Note 1)	T _{rr}	4	μS
Typical Thermal Resistance	R _{θJL}	8	°C/W
Junction Temperature Range	T _J	- 40 to + 150	°C
Storage Temperature Range	T _{STG}	- 40 to + 150	°C

Notes :

- (1) Reverse Recovery Test Conditions : I_F = 100mA, I_R = 100mA.

RATING AND CHARACTERISTIC CURVES (RH4F)

FIG.1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

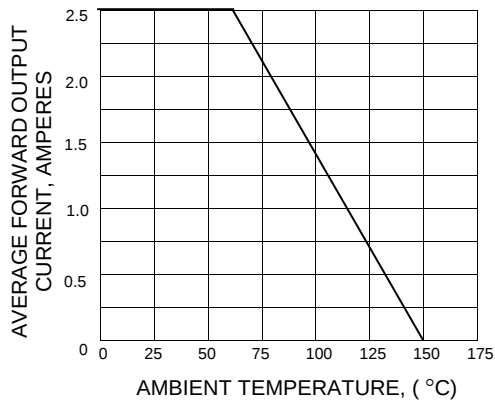


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

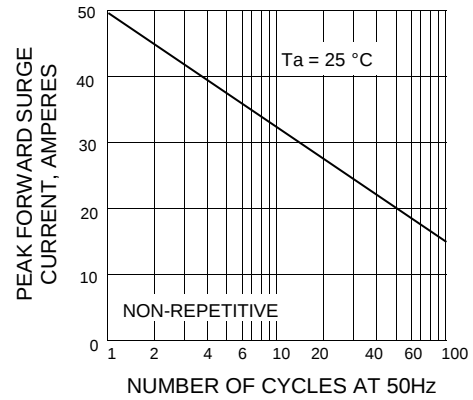


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

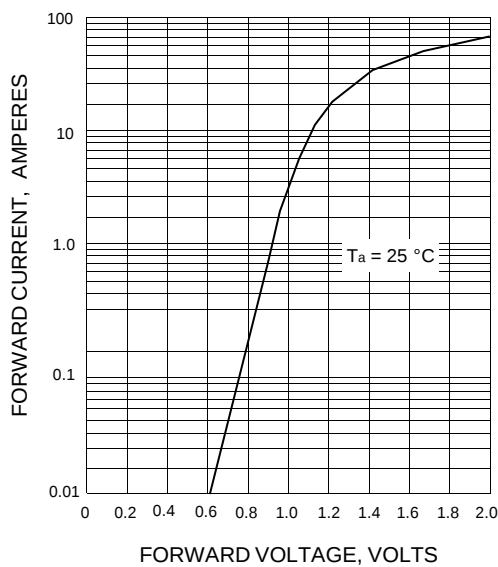


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

