

GR2S

GLASS PASSIVATED JUNCTION FAST RECOVERY RECTIFIER

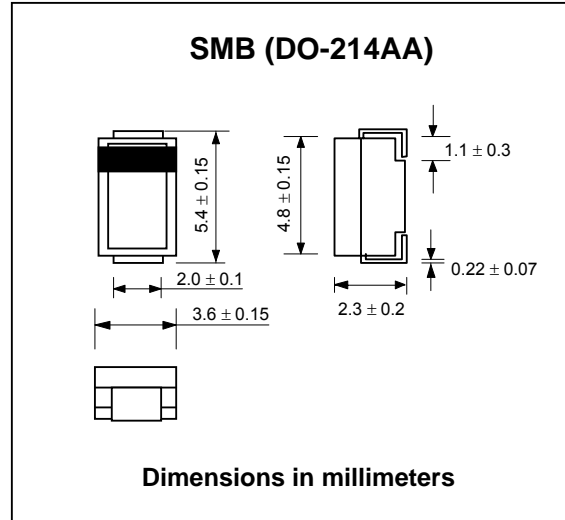
PRV : 700 Volts
Io : 1.125 Amperes

FEATURES :

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

MECHANICAL DATA :

- * Case : SMB Molded plastic
- * Epoxy : UL94V-O rate flame retardant
- * Lead : Lead Formed for Surface Mount
- * Polarity : Color band denotes cathode end
- * Mounting position : Any
- * Weight : 0.1079 gram



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 Recurrent Peak Reverse Voltage	V_{RRM}	700	V
Maximum RMS Voltage	V_{RMS}	490	V
Maximum DC Blocking Voltage	V_{DC}	700	V
Minimum Average Output Forward Current $T_a = 25\text{ }^\circ\text{C}$ $T_c = 55\text{ }^\circ\text{C}$	I_O	1.125 3.500	A
Peak Forward Surge Current, 8.3ms Single half sine wave superimposed on rated load (JEDEC Method)	I_{FSM}	70	A
Maximum Peak Forward Voltage at $I_F = 2.0\text{ A}$, $T_c = 25\text{ }^\circ\text{C}$	V_F	1.1	V
Maximum DC Reverse Current at Rated DC Blocking Voltage $T_a = 25\text{ }^\circ\text{C}$	I_R	2	μA
	$I_{R(H)}$	20	μA
Maximum Reverse Recovery Time (Note 1)	T_{rr}	500	ns
Typical Junction Capacitance (Note 2)	C_J	15	pF
Junction Temperature Range	T_J	- 65 to + 150	$^\circ\text{C}$
Storage Temperature Range	T_{STG}	- 65 to + 150	$^\circ\text{C}$

Notes :

- (1) Reverse Recovery Test Conditions : $I_F = 1.0\text{ A}$, $I_R = 1.0\text{ A}$, $I_{rr} = 0.5\text{ A}$.
- (2) Measured at 1.0 MHz and applied reverse voltage of 4.0 Vdc