

# GR2S

## GLASS PASSIVATED JUNCTION FAST RECOVERY RECTIFIER

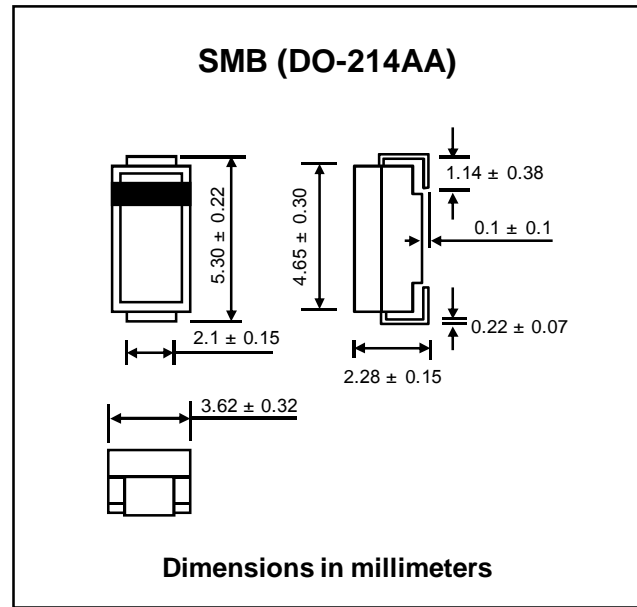
**PRV : 700 Volts**  
**Io : 1.125 Amperes**

### 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-0 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	A
		3.500	
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 $T_a = 25\text{ }^\circ\text{C}$ $T_a = 100\text{ }^\circ\text{C}$	$I_R$	2	$\mu\text{A}$
	$I_{R(H)}$	20	$\mu\text{A}$
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