

### RS101 THRU RS107

# SINGLE-PHASE GLASS PASSIVATED SILICON BRIDGE RECTIFIER

VOLTAGE RANGE 50 to 1000 Volts CURRENT 1.0 Ampere

#### **FEATURES**

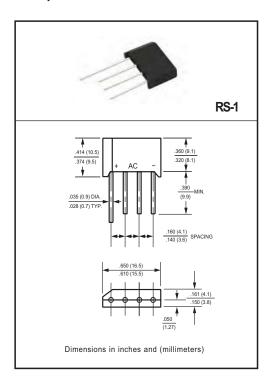
- \* Low power loss, high efficiency
- \* Low leakage
- \* Low forward voltage drop
- \* High current capability
- \* High speed switching
- \* High surge capabitity
- \* High reliability
- \* Guard ring construction on dice
- \* Anti-ESD

#### **MECHANICAL DATA**

- \* Epoxy: Device has UL flammability classification 94V-O
- \* Mounting position: Any
- \* Weight: 0.01 gram (Approx.)
- \* Flat lead frame

#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified. resistive or inductive load.



#### MAXIMUM RATINGS (@ TA=25 °C unless otherwise noted)

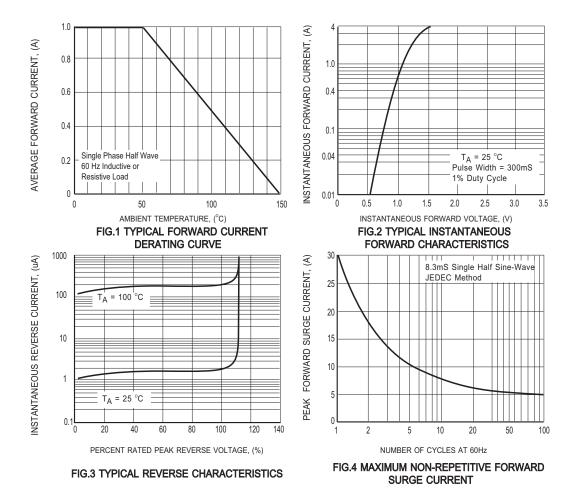
RATINGS	SYMBOL	RS101	RS102	RS103	RS104	RS105	RS106	RS107	UNITS
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at T <sub>A</sub> = 50°C	I <sub>0</sub>	1.0						Amps	
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I <sub>FSM</sub>	30					Amps		
Current Squarad Time	I <sup>2</sup> T	3.7					A <sup>2</sup> /Sec		
Typical Thermal Resistance (Note 1)	R <sub>OJC</sub>	15							°C/W
Typical Thermal Resistance (NOTE 1)	$R_{\Theta JA}$	50							
Operating and Storage Temperature Range	TJ, TSTG	-55 to + 150					°C		

#### $\textbf{ELECTRICAL CHARACTERISTICS}(@T_A=25~^{\circ}C~unless~otherwise~noted)$

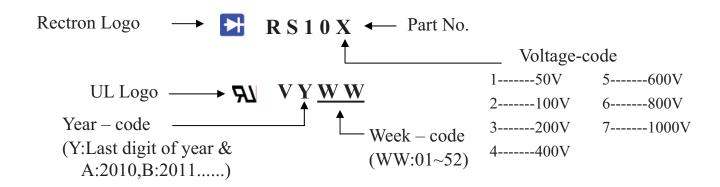
CHARACTERISTICS		SYMBOL	RS101	RS102	RS103	RS104	RS105	RS106	RS107	UNITS
Maximum Instantaneous Forward Voltage at 1.0A DC		V <sub>F</sub>	1.1							Volts
Maximum DC Reverse Current	@T <sub>A</sub> = 25°C	I <sub>R</sub>				2.0				
at Rated DC Blocking Voltage	@T <sub>A</sub> = 100°C					200				uAmps

NOTES: 1.Thermal Resistance: Heat-sink case mounted or if PCB mounted. 2. "Fully ROHS compliant", "100% Sn plating (Pb-free)".

### RATING AND CHARACTERISTICS CURVES (RS101 THRU RS107)



## **Marking Description**



# PACKAGING OF DIODE AND BRIDGE RECTIFIERS

### BULK PACK

PACKAGE	PACKING CODE EA PER BOX		INNER BOX SIZE (mm)	CARTON SIZE (mm)	EA PER CARTON	GROSS WEIGHT(Kg)	
RS-1	-В	600	240*239*35	497*255*162	4,800	9.264	



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