

# SR1D-E

## SINTERED GLASS JUNCTION SURFACE MOUNTED RECTIFIER

VOLTAGE : 200V

CURRENT : 1.0A



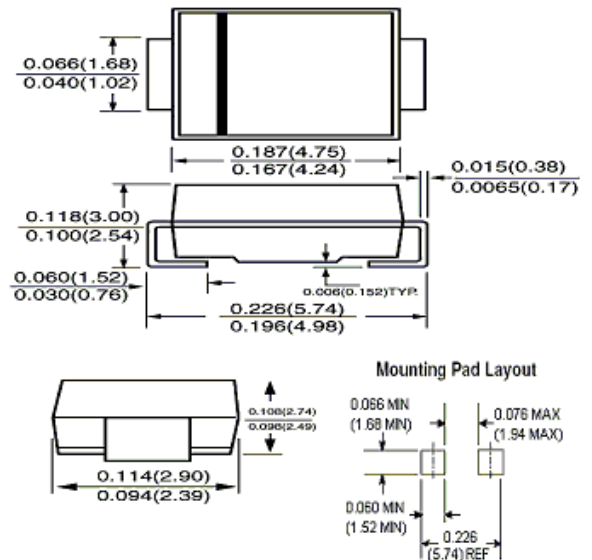
### FEATURE

Ideal for surface mount automotive applications  
 High temperature metallurgic ally bonded construction  
 Capability of meeting environmental standard of MIL-S-19500  
 Fast switching for high efficiency  
 High temperature soldering guaranteed  
 450°C/5sec at terminal  
 Complete device submersible temperature of 265°C for 10 seconds in solder bath  
 Halogen Free

### MECHANICAL DATA

Terminal: Solder plated, solderable per MIL-STD 202, method 208C  
 Case: Molded with UL-94 class V-0 recognized Halogen Free Epoxy over Glass  
 Polarity: color band denotes cathode end  
 Mounting position: any

### GF1/DO-214BA



Dimensions in inches and (millimeters)

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

	SYMBOL	SR1D-E	Units
Maximum Recurrent Peak Reverse Voltage	V <sub>rrm</sub>	200	V
Maximum RMS Voltage	V <sub>rms</sub>	140	V
Maximum DC blocking Voltage	V <sub>dc</sub>	200	V
Maximum Average Forward Rectified current T <sub>L</sub> = 120°C	I <sub>f(av)</sub>	1.0	A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I <sub>fsm</sub>	30.0	A
Maximum Forward Voltage at 1.0A	V <sub>f</sub>	1.3	V
Maximum full load reverse current full cycle average T <sub>a</sub> = 55°C	I <sub>r(av)</sub>	50.0	μA
Maximum DC Reverse Current =25°C	I <sub>r</sub>	5.0	μA
at rated DC blocking voltage =125°C	I <sub>r</sub>	100.0	μA
Maximum Reverse Recovery Time (Note 1)	T <sub>rr</sub>	150	nS
Typical Junction Capacitance (Note 2)	C <sub>j</sub>	8.5	pF
Typical Thermal Resistance (Note 3)	R <sub>th(ja)</sub> R <sub>th(jl)</sub>	85.0 28.0	°C/W
Storage and Operating Junction Temperature Range	T <sub>stg</sub> , T <sub>j</sub>	-65 to +175	°C

Note :

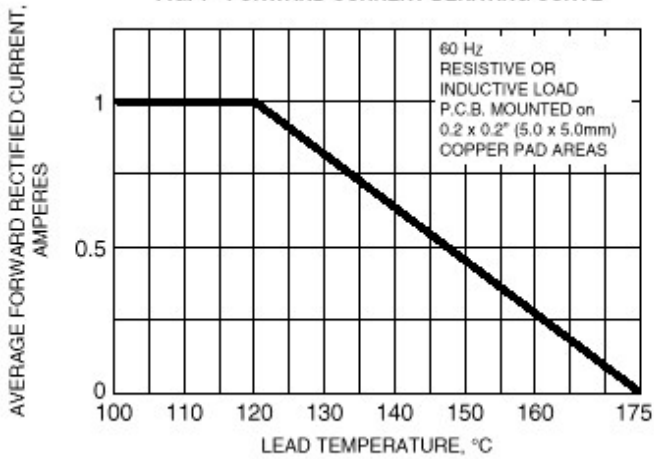
1. Reverse Recovery Condition  $I_f = 0.5A$ ,  $I_r = 1.0A$ ,  $I_{rr} = 0.25A$
2. Measured at 1.0 MHz and applied  $V_r = 4.0V$
3. Thermal Resistance from Junction to Ambient and from junction to lead, P.C.B. Mounted on  $0.2 \times 0.2'' (5.0 \times 5.0mm)$  copper pad areas

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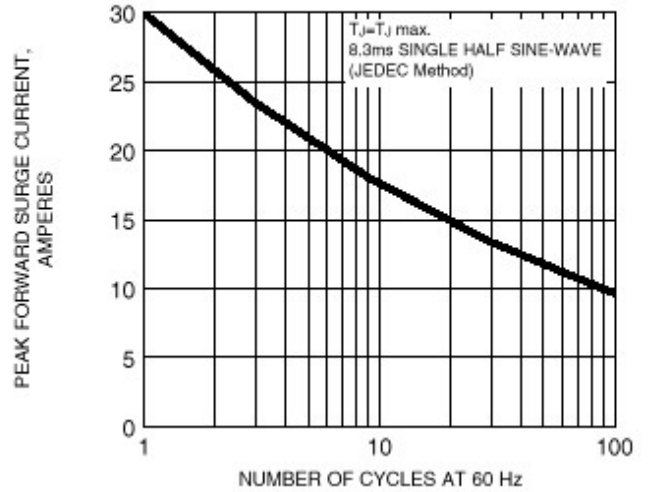
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**RATINGS AND CHARACTERISTIC CURVES SR1D-E**

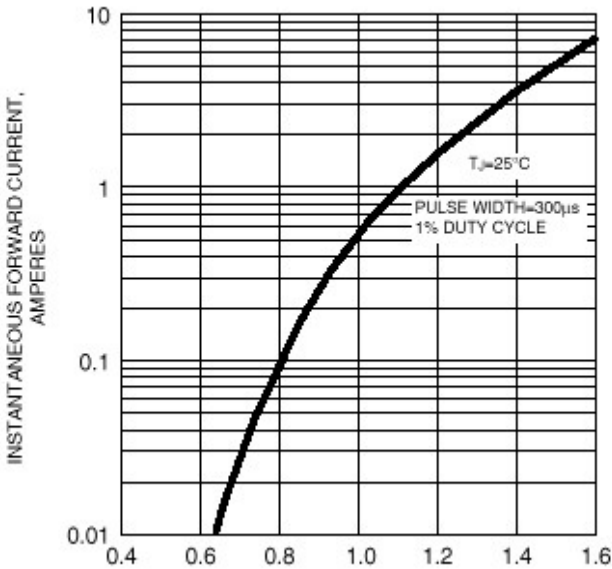
**FIG. 1 - FORWARD CURRENT DERATING CURVE**



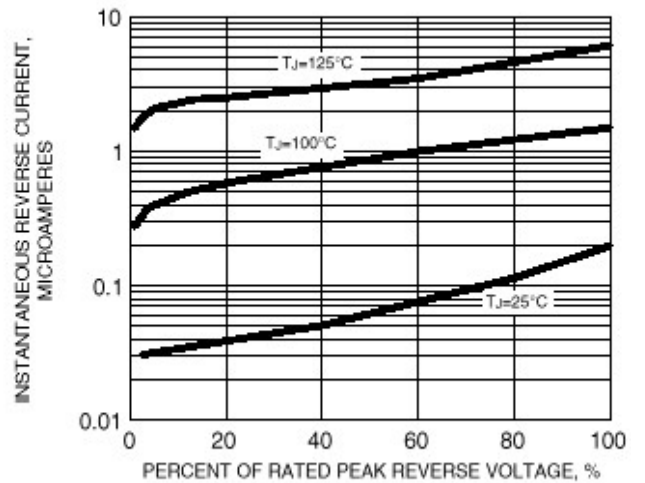
**FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT**



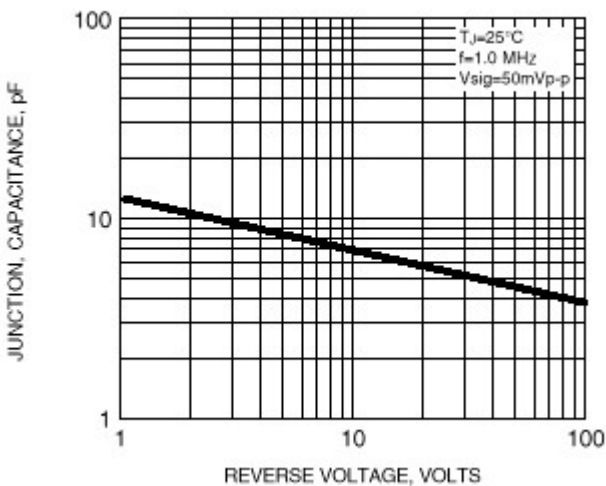
**FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS**



**FIG. 4 - TYPICAL REVERSE CHARACTERISTICS**



**FIG. 5 - TYPICAL JUNCTION CAPACITANCE**



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