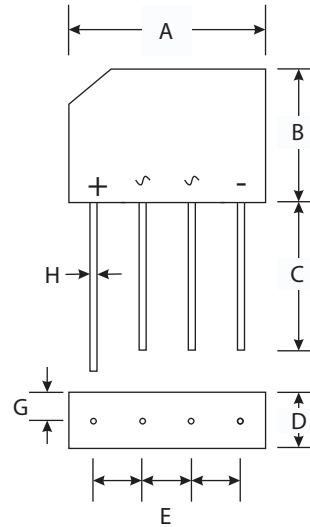


Features

- Glass Passivated Die Construction
- High Case Dielectric Strength of 1500V_{RMS}
- Low Reverse Leakage Current
- Surge Overload Rating to 65A Peak
- Ideal for Printed Circuit Board Applications
- Plastic Material - UL Flammability Classification 94V-0



RS		
Dim	Min	Max
A	15.50	16.00
B	10.00	10.50
C	15.00	—
D	3.70	4.00
E	2.50	3.00
G	2.30	2.50
H	0.70 Typical	
All Dimensions in mm		

Mechanical Data

- Case : Molded Plastic
- Terminals : Plated Leads, Solderable per MIL-STD-202, Method 208
- Polarity : As Marked on Body
- Approx. Weight : 1.52 grams
- Mounting Position : Any
- Marking : Type Number

Maximum Ratings And Electrical Characteristics

(Ratings at 25 °C ambient temperature unless otherwise specified, Single phase, half wave 60Hz, resistive or inductive load. For capacitive load, derate by 20%)

	Symbols	RS 101	RS 102	RS 103	RS 104	RS 105	RS 106	RS 107	Units
Peak Repetitive Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	Volts
Working Peak Reverse Voltage	V _{VRWM}								
DC Blocking Voltage	V _R								
RMS Reverse Voltage	V _{R(RMS)}	35	70	140	280	420	560	700	Volts
Average Rectified Output Current @ T _c = 50 °C	I _o	1.0							Amps
Non-Repetitive Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load per element (JEDEC method)	I _{FSM}	50							Amps
Forward Voltage (per element) @ I _F = 1.0 A	V _{FM}	1.0							Volts
Peak Reverse Current at Rated DC Blocking Voltage	@ T _c = 25 °C	10.0							μA
	@ T _c = 100 °C	1000							
Typical Junction Capacitance per Element (Note 2)	C _j	25							pF
Typical Thermal Resistance (Note 1)	R _{θJC}	38							°C/W
Operating and Storage Temperature Range	T _j T _{STG}	-55 to +150							°C

Notes:

- (1) Thermal resistance from junction to case per element. Unit mounted on 75 x 75 x 16mm aluminum plate heat sink.
- (2) Measured at 1.0MHz and Applied Reverse Voltage of 4.0V DC.

RATING AND CHARACTERISTIC CURVES RS101 THRU RS107

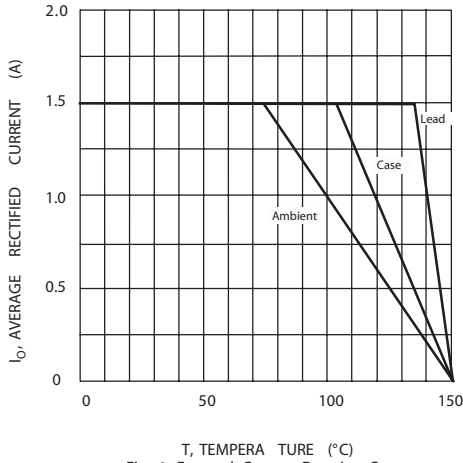


Fig. 1 Forward Current Derating Curve

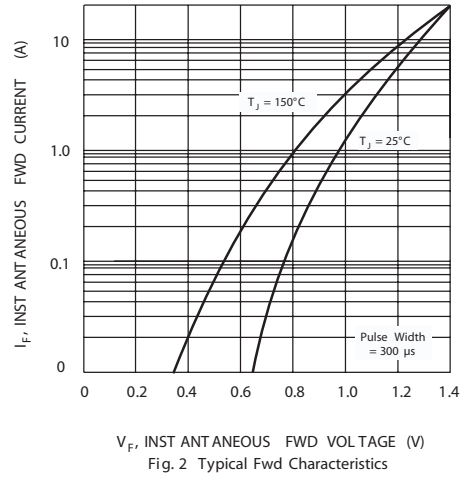


Fig. 2 Typical Fwd Characteristics

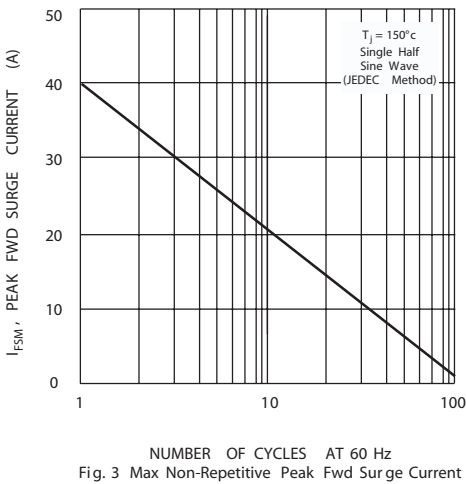


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

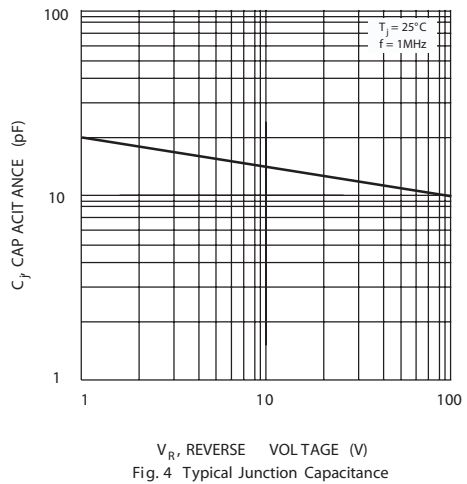


Fig. 4 Typical Junction Capacitance

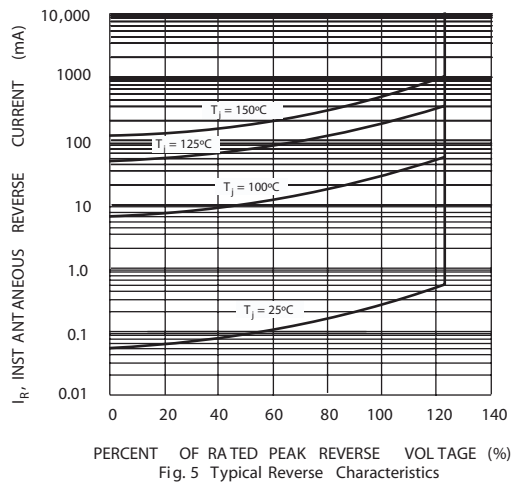


Fig. 5 Typical Reverse Characteristics