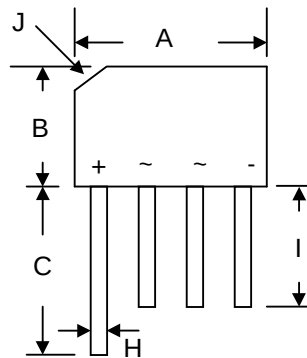


Features

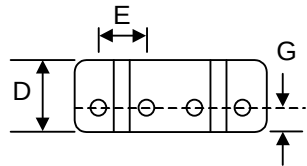
- Diffused Junction
- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability
- Ideal for Printed Circuit Boards



RS		
Dim	Min	Max
A	14.22	15.24
B	10.60	11.68
C	15.2	—
D	3.40	4.20
E	3.60	4.10
G	1.27	—
H	0.70	0.90
I	12.7	—
J	4.2 x 45° Typical	
All Dimensions in mm		

Mechanical Data

- Case: Molded Plastic
- Terminals: Plated Leads Solderable
- MIL-STD-202, Method 208
- Polarity: As Marked on Body
- Weight: 1.7 grams (approx.)
- Mounting Position: Any
- Marking: Type Number
- **Lead Free: For RoHS / Lead Free Version**



Type number	Marking code
RS205	RS205, KBP206
RS206	RS206, KBP208
RS207	RS207, KBP210

Maximum Ratings and Electrical Characteristics @ $T_A=25^\circ\text{C}$ unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load.
 For capacitive load, derate current by 20%.

Characteristic	Symbol	RS 205	RS 206	RS 207	Unit
Peak Repetitive Reverse Voltage	V_{RRM}				V
Working Peak Reverse Voltage	V_{RWM}	600	800	1000	
DC Blocking Voltage	V_R				
RMS Reverse Voltage	$V_{R(RMS)}$	420	560	700	V
Average Rectified Output Current (Note 1) @ $T_A = 50^\circ\text{C}$	I_o	2.0			A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	60			A
Forward Voltage (per element) @ $I_F = 2.0\text{A}$	V_{FM}	1.1			V
Peak Reverse Current @ $T_A = 25^\circ\text{C}$ At Rated DC Blocking Voltage @ $T_A = 100^\circ\text{C}$	I_{RM}	10 500			μA
Typical Thermal Resistance (Note 3)	R_{JA}	30			K/W
Operating and Storage Temperature Range	T_j, T_{STG}	-55 to +150			$^\circ\text{C}$

- Note: 1. Leads maintained at ambient temperature at a distance of 9.5mm from the case.
 2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.
 3. Thermal resistance junction to ambient mounted on PC board with 12mm² copper pad.

2.0A BRIDGE RECTIFIER

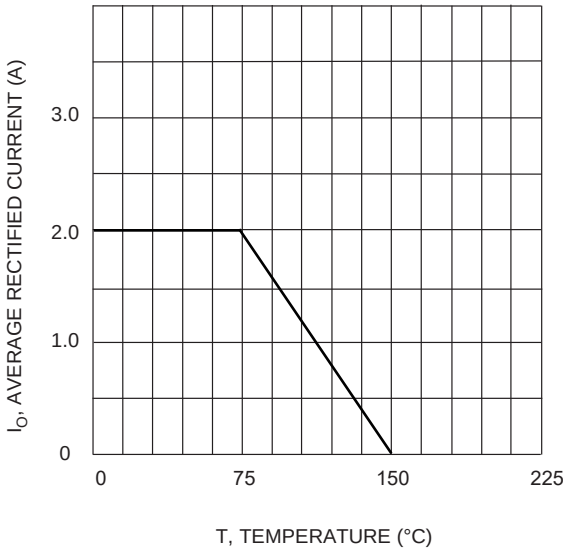


Fig. 1 Forward Current Derating Curve

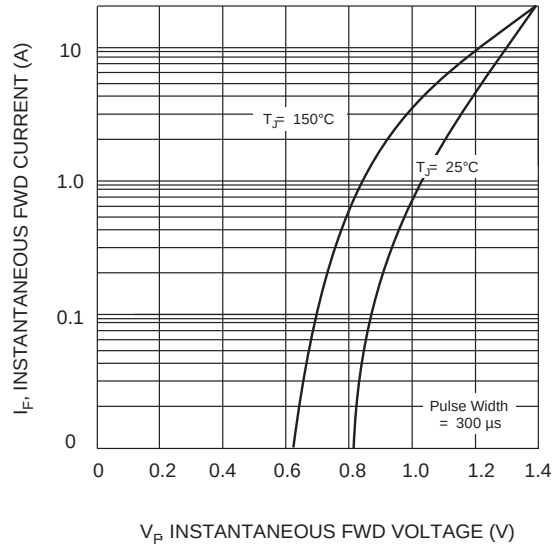


Fig. 2 Typical Fwd Characteristics

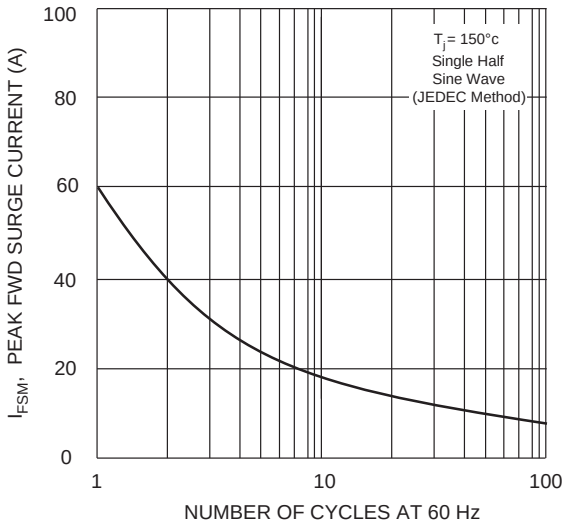


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

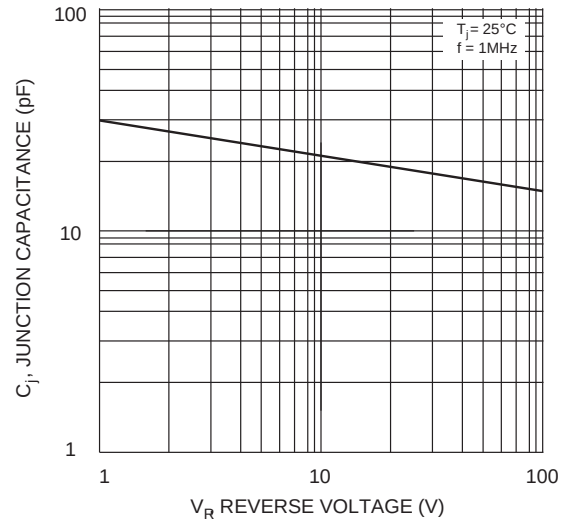


Fig. 4 Typical Junction Capacitance

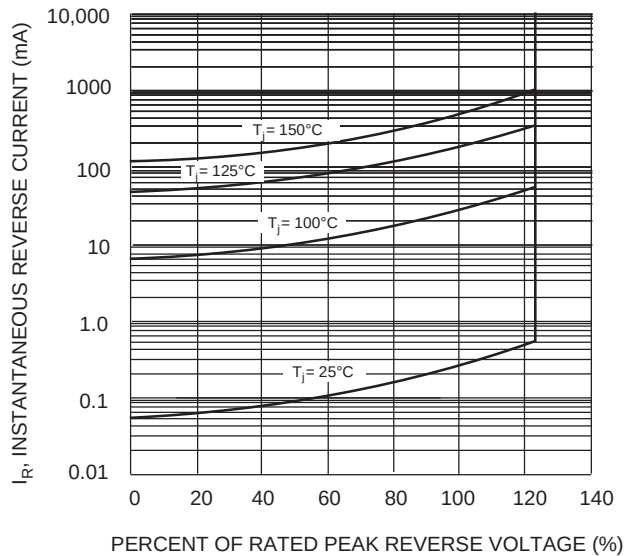


Fig. 5 Typical Reverse Characteristics