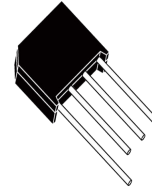


VOLTAGE RANGE: 50 -1000V
CURRENT: 2.0 A

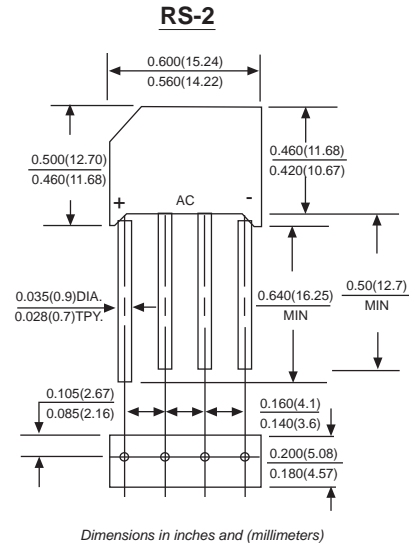
Features

- Ideal for printed circuit boards
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed:
 260°C/10 seconds, 0.375"(9.5mm) lead length,
 5 lbs. (2.3kg) tension
- The plastic package carries Underwriters Laboratory
 Flammability Classification 94V-0



Mechanical Data

- Case: Molded plastic body
- Terminals: Plated leads solderable per
- MIL-STD-750, Method 2026
- Polarity: Polarity symbols marked on case
- Mounting Position: Any
- Weight: 0.069 ounce, 1.95 grams



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	RS201	RS202	RS203	RS204	RS205	RS206	RS207	Unit
Maximum repetitive peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum average forward output rectified current at $T_A=50^\circ\text{C}$ (Note 2)	$I_{(AV)}$	2.0							A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	50.0							A
Rating for Fusing($t < 8.3\text{ms}$)	I^2t	10							A^2s
Maximum instantaneous forward voltage drop per bridge element at 1.0A	V_F	1.0							Volts
Maximum DC reverse current $T_A=25^\circ\text{C}$ at rated DC blocking voltage $T_A=100^\circ\text{C}$	I_R	10							μA
		0.5							mA
Typical Junction Capacitance (Note 1)	C_J	20							pF
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	28							$^\circ\text{C}/\text{W}$
Operating junction temperature range	T_J	-60 to +150							$^\circ\text{C}$
storage temperature range	T_{STG}	-60 to +150							$^\circ\text{C}$

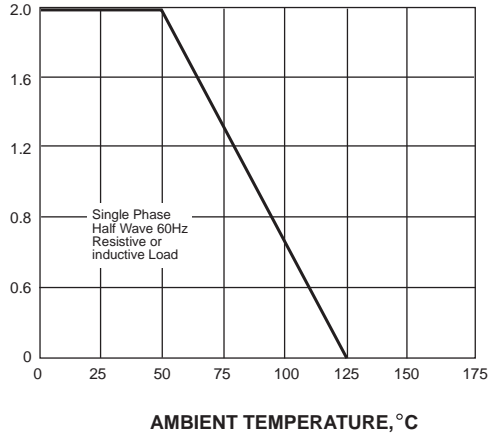
NOTES:

1. Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts.
2. Unit mounted on P.C. board with 0.47" x 0.47" (12x12mm) copper pads, 0.375"(9.5mm) lead length.

RATINGS AND CHARACTERISTIC CURVES RS201 THUR RS207

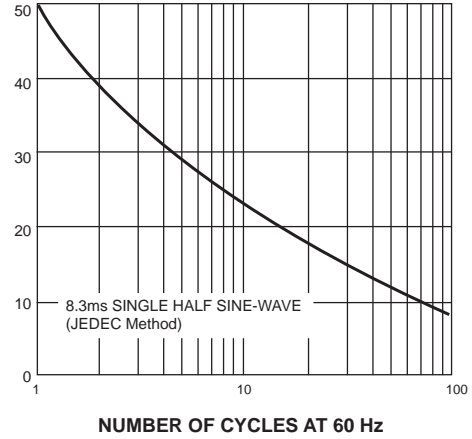
AVERAGE FORWARD RECTIFIED CURRENT, AMPERES

FIG. 1- FORWARD CURRENT DERATING CURVE



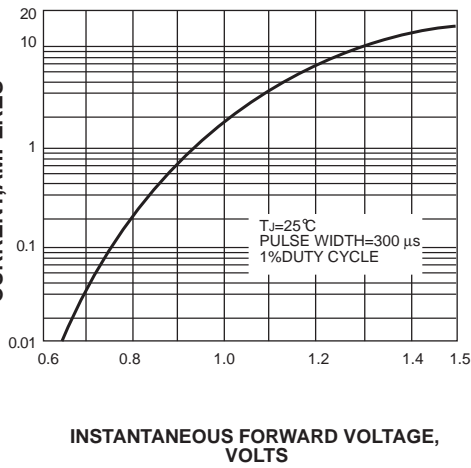
PEAK FORWARD SURGE CURRENT, AMPERES

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



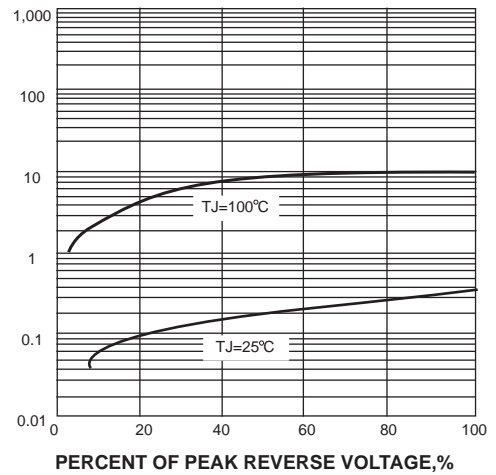
INSTANTANEOUS FORWARD CURRENT, AMPERES

FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



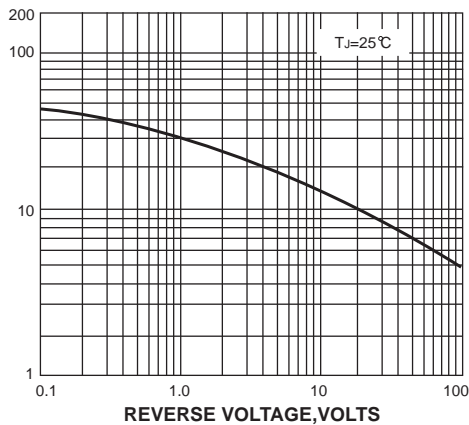
INSTANTANEOUS REVERSE CURRENT, MICROAMPERES

FIG. 4-TYPICAL REVERSE CHARACTERISTICS



JUNCTION CAPACITANCE, pF

FIG. 5-TYPICAL JUNCTION CAPACITANCE



TRANSIENT THERMAL IMPEDANCE, $^\circ\text{C}/\text{W}$

FIG. 6-TYPICAL TRANSIENT THERMAL IMPEDANCE

