

VOLTAGE RANGE: 50 -1000 V

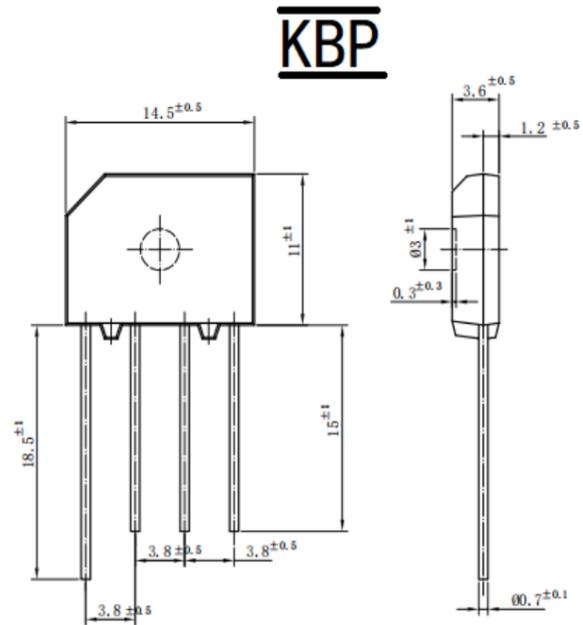
CURRENT: 2.0 A

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
- Weight: 0.069 ounce, 1.95 grams



Dimensions in millimeters

Maximum Ratings and Electrical Characteristics T_A = 25°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°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<8.3ms)	I ² t	10							A ² s
Maximum instantaneous forward voltage drop per bridge element at 1.0A	V _F	1.0							Volts
Maximum DC reverse current at rated DC blocking voltage	I _R	10							μA
		0.5							mA
Typical Junction Capacitance (Note 1)	C _J	20							pF
Typical Thermal Resistance (Note 2)	R _{θJA}	28							°C/W
Operating junction temperature range	T _J	-60 to +150							°C
storage temperature range	T _{STG}	-60 to +150							°C

NOTES:

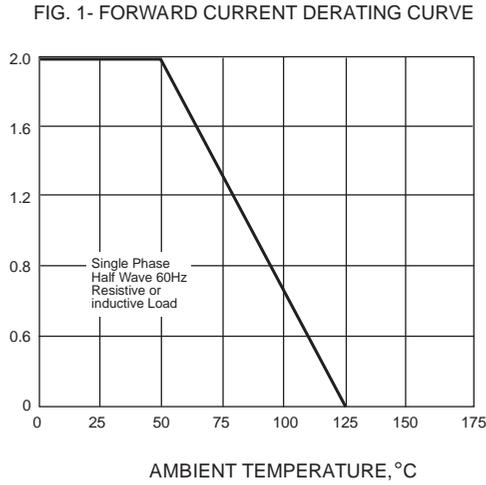
1. Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts.

2. Unit mounted on P.C. board with 0.47" x 0.47" (12x12mm) copper pads, 0.375" (9.5mm) lead length.

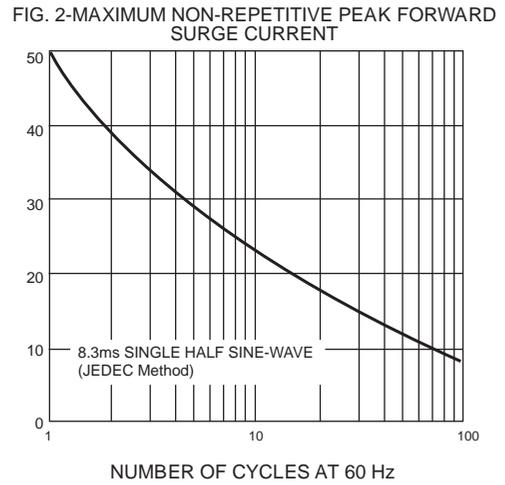


RATINGS AND CHARACTERISTIC CURVES RS201 THUR RS207

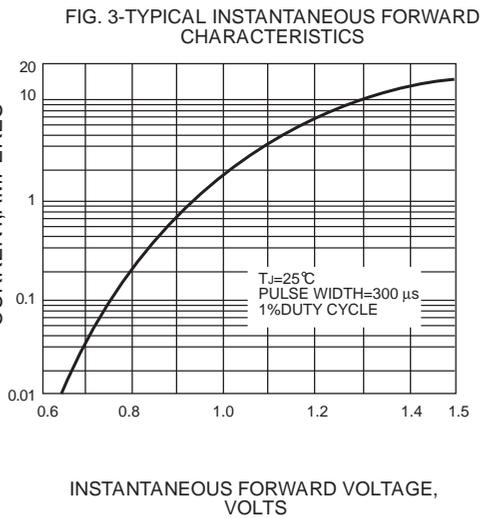
AVERAGE FORWARD RECTIFIED CURRENT, AMPERES



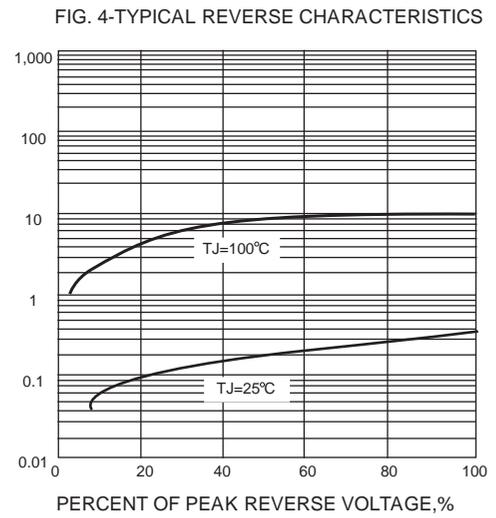
PEAK FORWARD SURGE CURRENT, AMPERES



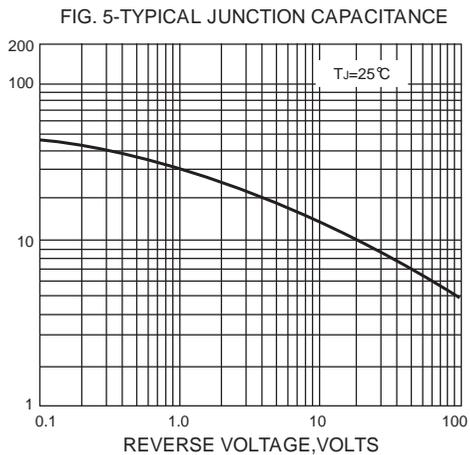
INSTANTANEOUS FORWARD CURRENT, AMPERES



INSTANTANEOUS REVERSE CURRENT, MICROAMPERES



JUNCTION CAPACITANCE, pF



TRANSIENT THERMAL IMPEDANCE, °C/W

