



Silicon Bridge Rectifiers

RS401L--RS407L

FEATURES

- Rating to 1000V PRV
- Surge overload rating to 150 Amperes peak
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- Lead solderable per MIL-STD-202 method 208



Lead-free

Maximum Ratings (@T_A = 25°C unless otherwise specified)

| Characteristic | Symbol | RS401L | RS 402L | RS403L | RS404L | RS405L | RS406L | RS407L | UNITS |
|---|--------------------|--------|---------|--------|--------|--------|--------|--------|-------|
| Maximum recurrent 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 current @T _A =25°C | I _{F(AV)} | 4.0 | | | | | | | A |
| Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load | I _{FSM} | 150 | | | | | | | A |

Thermal Characteristics

| Characteristic | Symbol | RS401L | RS 402L | RS403L | RS404L | RS405L | RS406L | RS407L | UNITS |
|--------------------------------------|------------------|-----------------|---------|--------|--------|--------|--------|--------|-------|
| Operating junction temperature range | T _J | - 55 ---- + 150 | | | | | | | °C |
| Storage temperature range | T _{STG} | - 55 ---- + 150 | | | | | | | °C |

Electrical Characteristics (@T_A = 25°C unless otherwise specified)

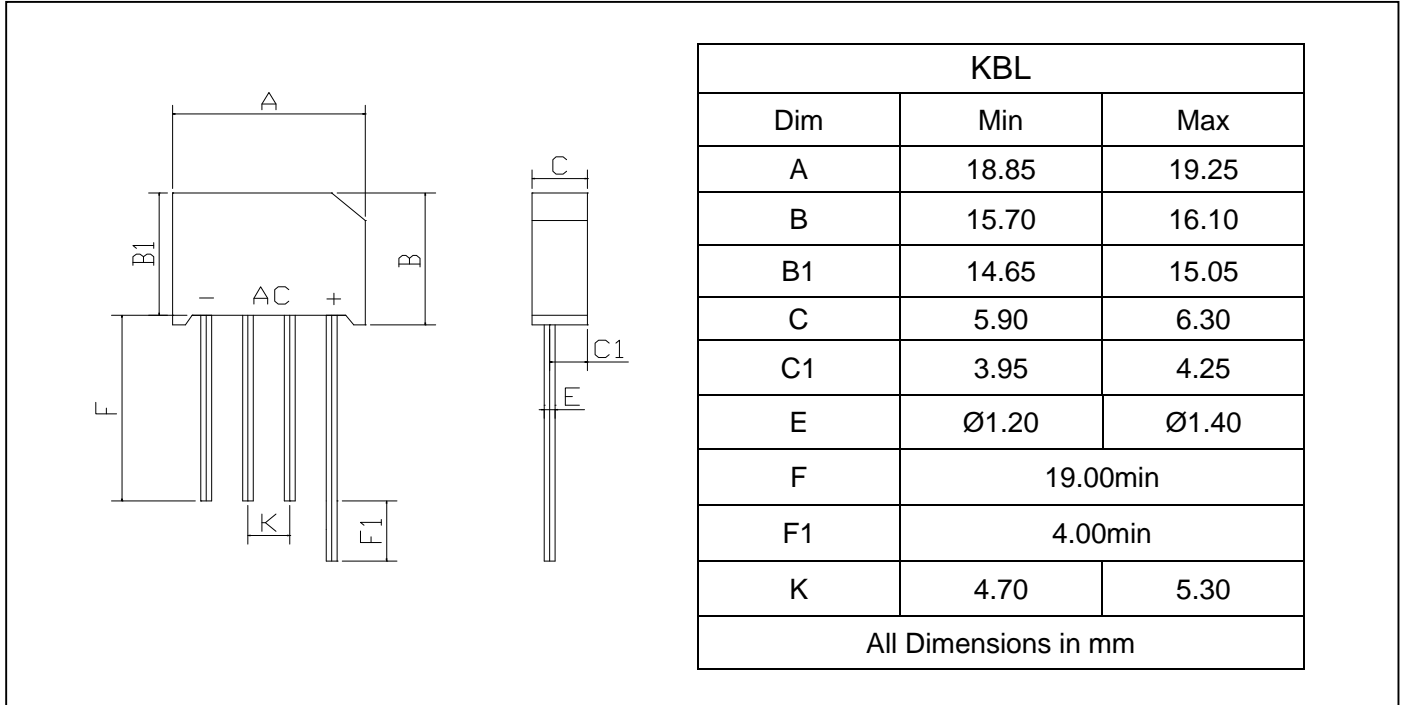
| Characteristic | Symbol | RS401L | RS 402L | RS403L | RS404L | RS405L | RS406L | RS407L | UNITS |
|--|----------------|------------|---------|--------|--------|--------|--------|--------|------------|
| Maximum instantaneous forward voltage @2.0A | V _F | 1.1 | | | | | | | V |
| Maximum reverse current @T _A =25°C at rated DC blocking voltage @T _A =100°C | I _R | 5.0 1.0 | | | | | | | μ A m A |



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PACKAGE OUTLINE DIMENSIONS



PACKAGE INFORMATION

| Device | Package | Shipping |
|----------------|---------|---------------|
| RS401L--RS407L | KBL | 500 Units/Box |



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FIG.1 – TYPICAL FORWARD CURRENT DERATING CURVE

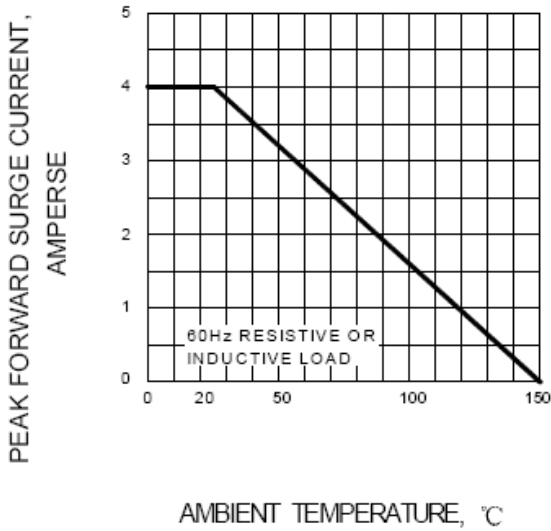


FIG.2 – MAXIMUM FORWARD SURGE CURRENT

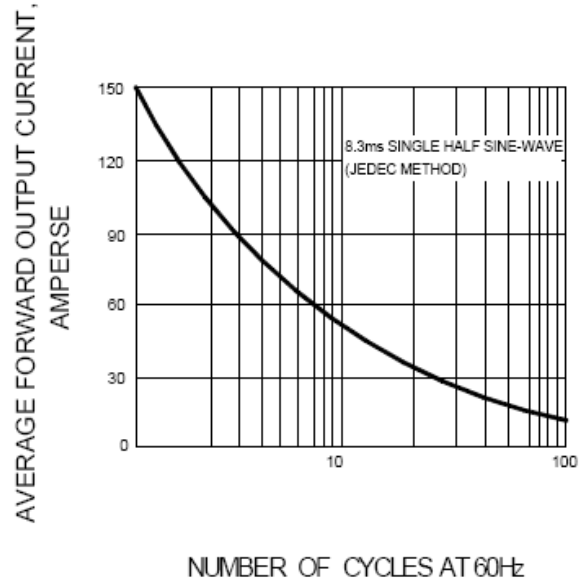


FIG.3 -- TYPICAL FORWARD CHARACTERISTIC

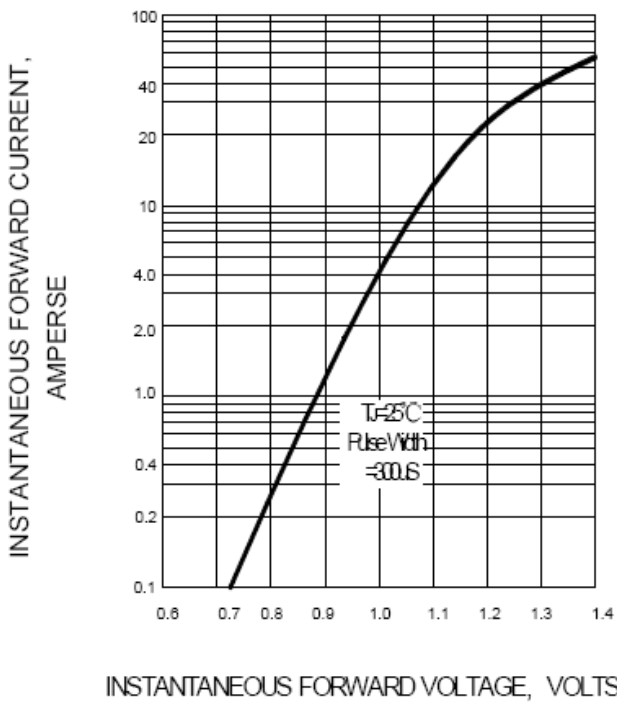


FIG.4 – TYPICAL REVERSE CHARACTERISTIC

