

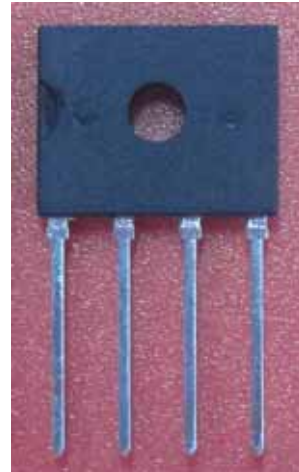
D4KB10 Thru D4KB100

High Current Glass Passivated Molding Single-Phase Bridge Rectifier

Reverse Voltage 100 to 1000V Forward Current 4.0 A

FEATURES

- Plastic Package has Underwriters Laboratory Flammability Classification 94V-0
- High current capacity with small package
- Glass passivated chip junctions
- Superior thermal conductivity
- High IFSM



1. Maximum & Thermal Characteristics Ratings at 25 °C ambient temperature unless otherwise specified.

| Parameter Symbol | Symbol | D4KB10 | D4KB20 | D4KB40 | D4KB60 | D4KB80 | D4KB100 | Unit |
|---|--------|---------|--------|--------|--------|--------|---------|-------|
| Maximum repetitive voltage | VRRM | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum RMS Voltage | VRMS | 70 | 140 | 280 | 420 | 560 | 700 | V |
| Maximum DC Blocking Voltage | VDC | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum DC reverse current TA=25 | IR | 5 | | | | | | µA |
| at rated DC blocking voltage TA=125 | | 500 | | | | | | |
| Average rectified forward current Tc=100 | Io | 4 | | | | | | A |
| 60Hz Sine wave Resistance load TA=40 | | 3 | | | | | | |
| Peak forward surge current 8.3ms single half sine-wave superimposed on rated load | IFSM | 135 | | | | | | A |
| Rating of fusing (t<8.3ms) | I2t | 75 | | | | | | A2sec |
| Dielectric strength terminals to case , AC 1 minute Current 1mA | Vdia | 2.5 | | | | | | KV |
| Max instantaneous forward voltage at 2.0A | VF | 1.0 | | | | | | V |
| Operating junction temperature | TJ | 150 | | | | | | |
| Maximum thermal on P.C.B. without heat-sink | RθJA | 14 | | | | | | /W |
| resistance per leg on Al plate heat-sink | RθJC | 8.2 | | | | | | |
| Storage temperature | Tstg | -55~150 | | | | | | |

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2. Ratings and Characteristic Curves (TA = 25°C unless otherwise noted)

Fig. 1 Derating Curve

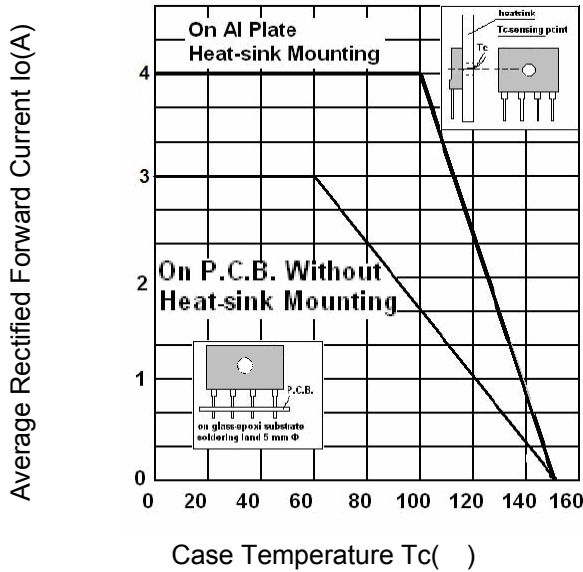


Fig.2 Typical Reverse Characteristics

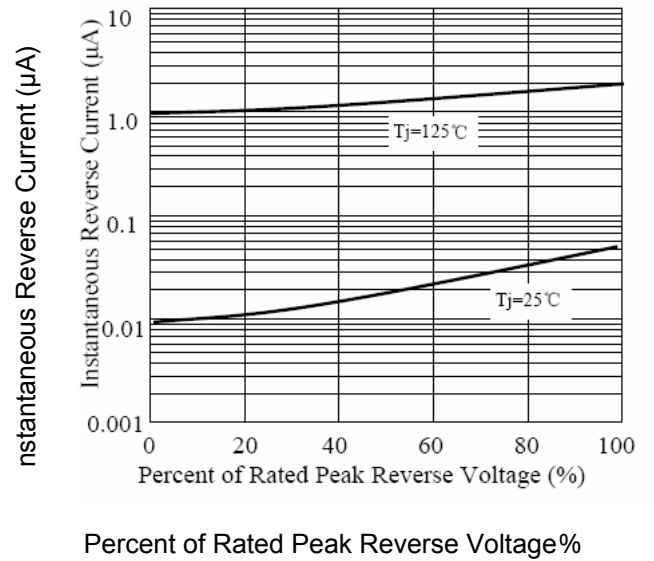


Fig.3 Forward Voltage

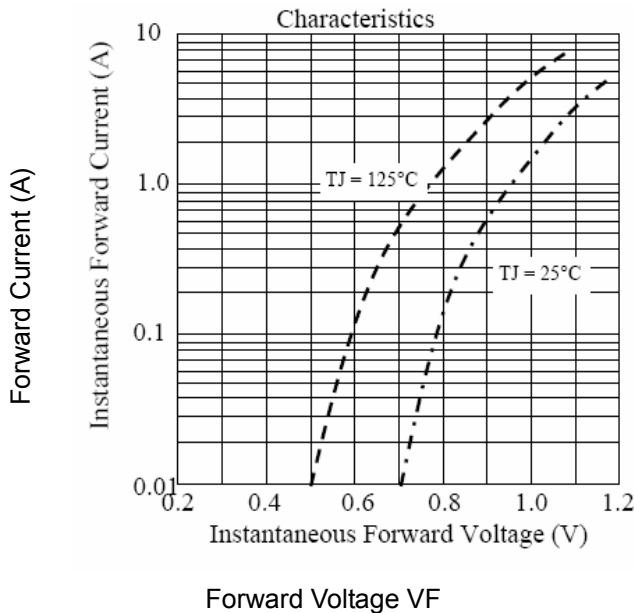
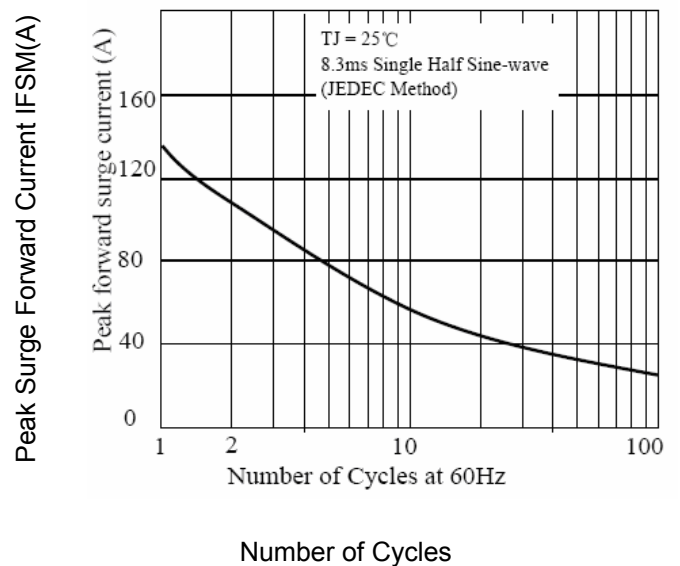
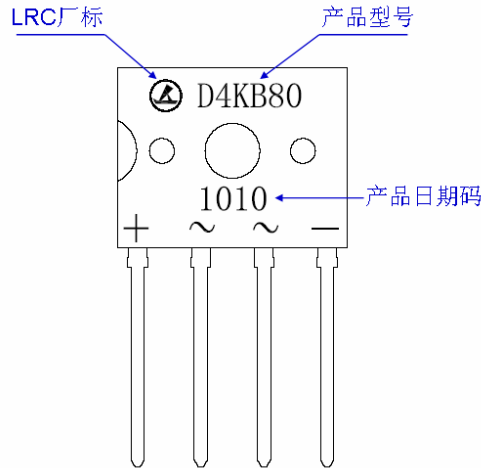


Fig.4 Peak Surge Forward Capability



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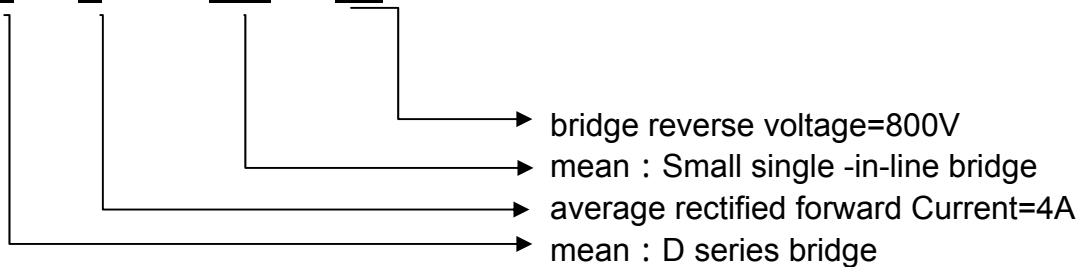
3. Marking Identification



Note :

生产日期码包含4位数字，例如“1010”，前两个数字“10”表示为2010年，另外二个数字“10”是指第10周，即表示该产品为2010年10周生产。

型号：D 4 KB 80



4. Dimension

