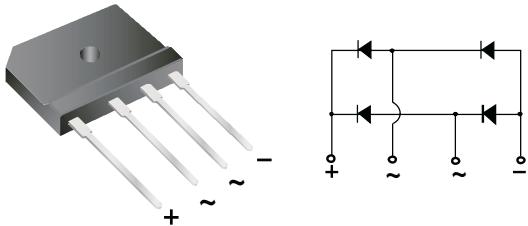


## 20 Amp. Glass Passivated Single Phase In Line Bridge Rectifier

<p><b>IN LINE BIG</b></p> 	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;"><b>Voltage</b> 400 V to 1000 V</td> <td style="text-align: center;"><b>Current</b> 20 A</td> </tr> <tr> <td colspan="2"> <b>FEATURES</b> <ul style="list-style-type: none"> <li>UL recognition file number E320541, Vol. 2</li> <li>Ideal for printed circuit board</li> <li>High case dielectric strength of 2000 Vrms</li> <li>High surge current capability</li> <li>Solder dip 260°C, 10s</li> <li>Component in accordance to RoHS 2011/65/EU and WEEE 2002/96/EC</li> </ul> </td> </tr> <tr> <td colspan="2"> <b>MECHANICAL DATA</b> <ul style="list-style-type: none"> <li><b>Case:</b> IN LINE BIG. Epoxy meets UL 94V-0 flammability rating.</li> <li><b>Polarity:</b> As marked on body</li> <li><b>Mounting Torque:</b> 5.5cm·kg (5 in.- lbs.)</li> <li><b>Terminals:</b> Matte tin plated leads, solderable per MIL-STD-750 Method 2026, J-STD-002 and JESD22-B102. Consumer grade, meets JESD 201 class 1A whisker test</li> </ul> </td> </tr> <tr> <td colspan="2"> <b>TYPICAL APPLICATIONS</b>                      Used in ac-to-dc bridge full wave rectification for monitor, TV, printer, switching mode power supply, adapter, audio equipment, and home appliances applications.                 </td> </tr> </table>	<b>Voltage</b> 400 V to 1000 V	<b>Current</b> 20 A	<b>FEATURES</b> <ul style="list-style-type: none"> <li>UL recognition file number E320541, Vol. 2</li> <li>Ideal for printed circuit board</li> <li>High case dielectric strength of 2000 Vrms</li> <li>High surge current capability</li> <li>Solder dip 260°C, 10s</li> <li>Component in accordance to RoHS 2011/65/EU and WEEE 2002/96/EC</li> </ul>		<b>MECHANICAL DATA</b> <ul style="list-style-type: none"> <li><b>Case:</b> IN LINE BIG. Epoxy meets UL 94V-0 flammability rating.</li> <li><b>Polarity:</b> As marked on body</li> <li><b>Mounting Torque:</b> 5.5cm·kg (5 in.- lbs.)</li> <li><b>Terminals:</b> Matte tin plated leads, solderable per MIL-STD-750 Method 2026, J-STD-002 and JESD22-B102. Consumer grade, meets JESD 201 class 1A whisker test</li> </ul>		<b>TYPICAL APPLICATIONS</b> Used in ac-to-dc bridge full wave rectification for monitor, TV, printer, switching mode power supply, adapter, audio equipment, and home appliances applications.	
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### Maximum Ratings and Electrical Characteristics at 25 °C

Marking Code		D20XB40	D20XB60	D20XB80	D20XB100
$V_{RRM}$	Peak recurrent reverse voltage (V)	400	600	800	1000
$V_{RMS}$	Maximum RMS Voltage (V)	280	420	560	700
$I_{F(AV)}$	Max. Average forward current	20 A at $T_c: 87^\circ C$ (Note 1) 3.2 A at $25^\circ C$ (Note 2)			
$I_{FSM}$	Peak forward surge current 10ms single half sine-wave superimposed on rated load (Jedec Method)	240 A			
$V_{DIS}$	Dielectric strength (terminals to case, AC 1 min.)	2000 V			
$i^2t$	Current squared time (rating for fusing) (1ms.<t<10ms. $T_c = 25^\circ C$ )	240 A <sup>2</sup> sec			
$T_j$	Operating temperature range	-55 to +150 °C			
$T_{stg}$	Storage temperature range	-55 to +150 °C			

### Electrical Characteristics at Tamb = 25 °C

$V_F$	Max. Instantaneous forward voltage @ = 10 A	1.0 V
$I_R$	Maximum DC Reverse Current @ $T_A = 25^\circ C$ at Rated DC Blocking Voltage @ $T_A = 125^\circ C$	10 $\mu A$ 500 $\mu A$
$R_{th(j-c)}$ $R_{th(j-a)}$	Typical Thermal Resistance Junction-case Junction-Ambient	1.5 °C/W (Note 1) 22 °C/W (Note 2)

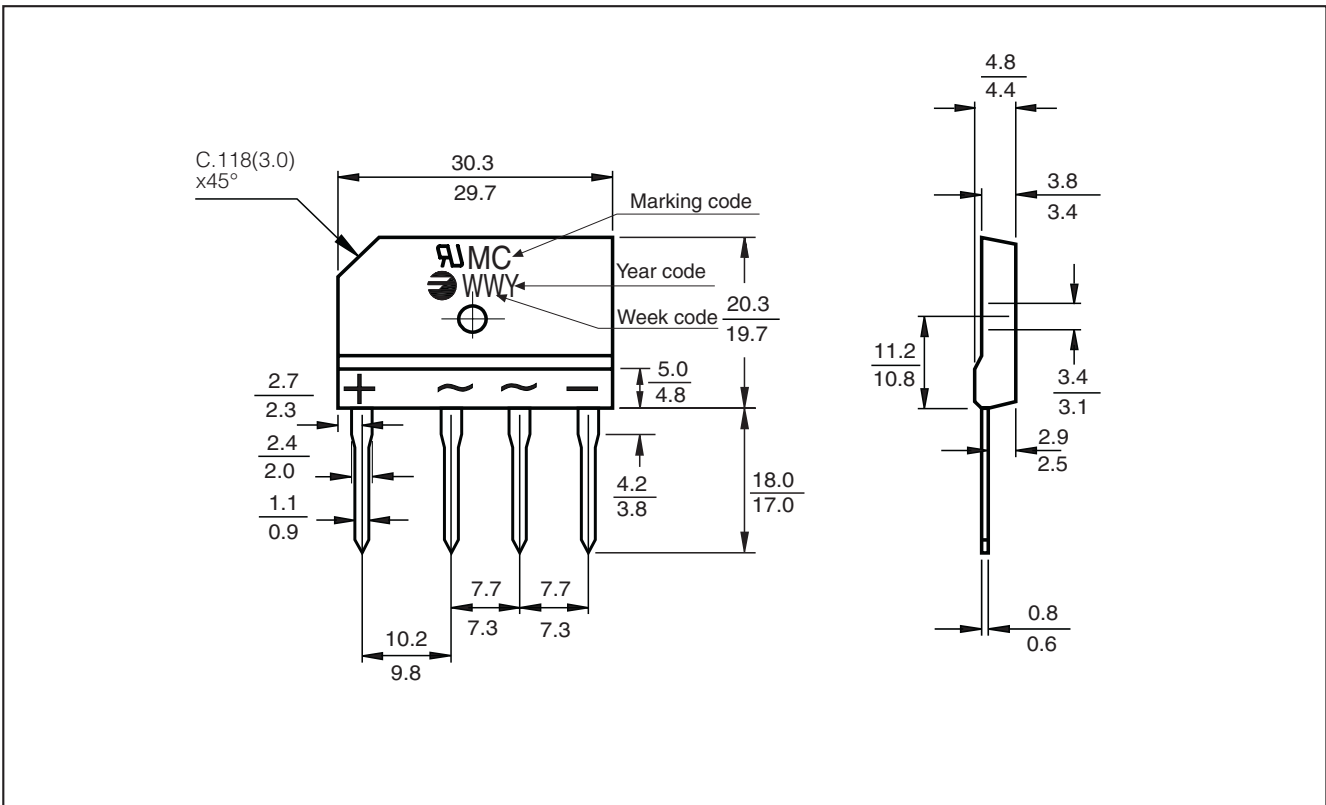
Notes: 1. Unit case mounted on aluminum plate heatsink  
2. Units mounted on P.C.B. without heatsink

**20 Amp. Glass Passivated Single Phase In Line Bridge Rectifier**

**Ordering information**

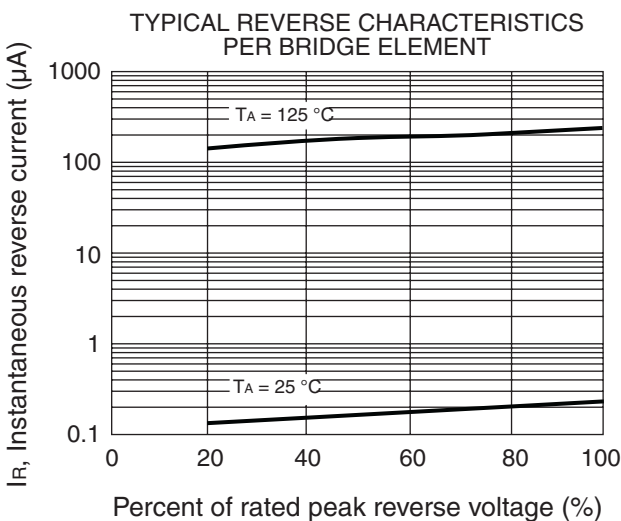
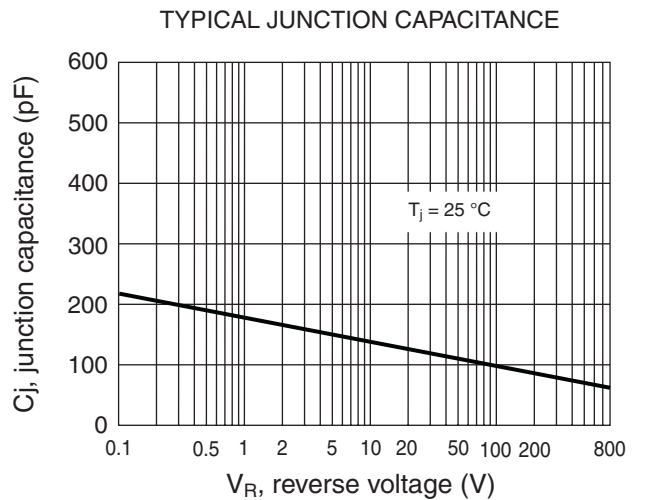
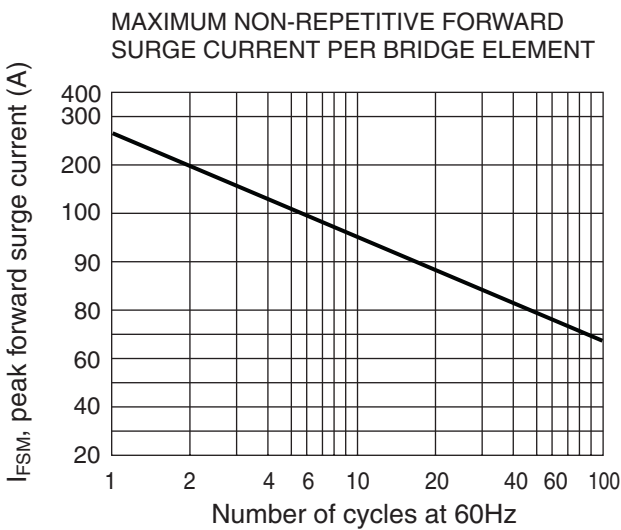
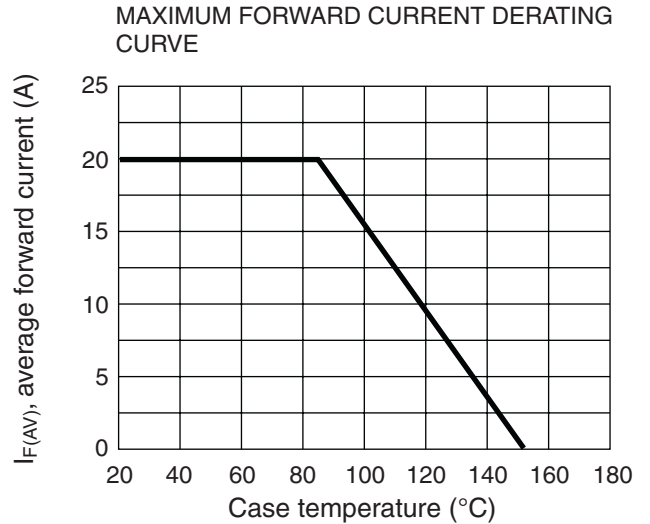
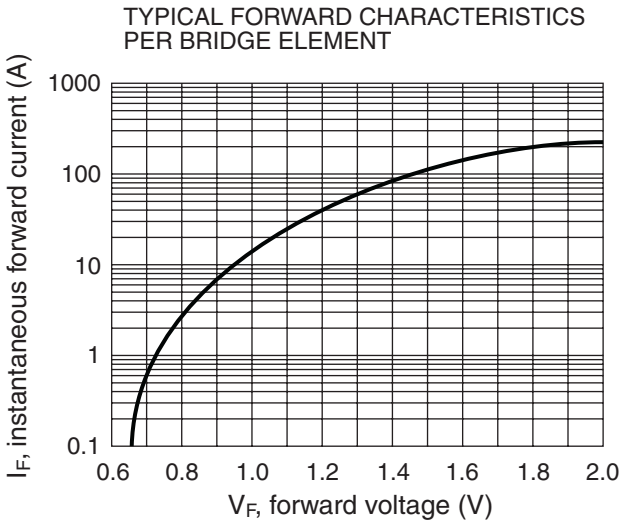
PREFERRED P/N	PACKAGE CODE	DELIVERY MODE	BASE QUANTITY	UNIT WEIGHT (g)
D20XB60 TU	TU	TUBE	15	6.50

**Package Outline Dimensions: (mm) IN LINE BIG**



**20 Amp. Glass Passivated Single Phase In Line Bridge Rectifier**

**Ratings and Characteristics (Ta 25 °C unless otherwise noted)**



**20 Amp. Glass Passivated Single Phase In Line Bridge Rectifier****Revision History**

DATE	REVISION	DESCRIPTION OF CHANGES
15-Nov-2012	0	Original Data Sheet
27-Jan-2014	1	Changed ordering information
2-Jan-2023	2	Change ordering information

**Disclaimer**

All product, product specifications and data are subject to change without notice to improve reliability, function or design or otherwise.

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