

## 50 Amp. Glass Passivated Bridge Rectifier

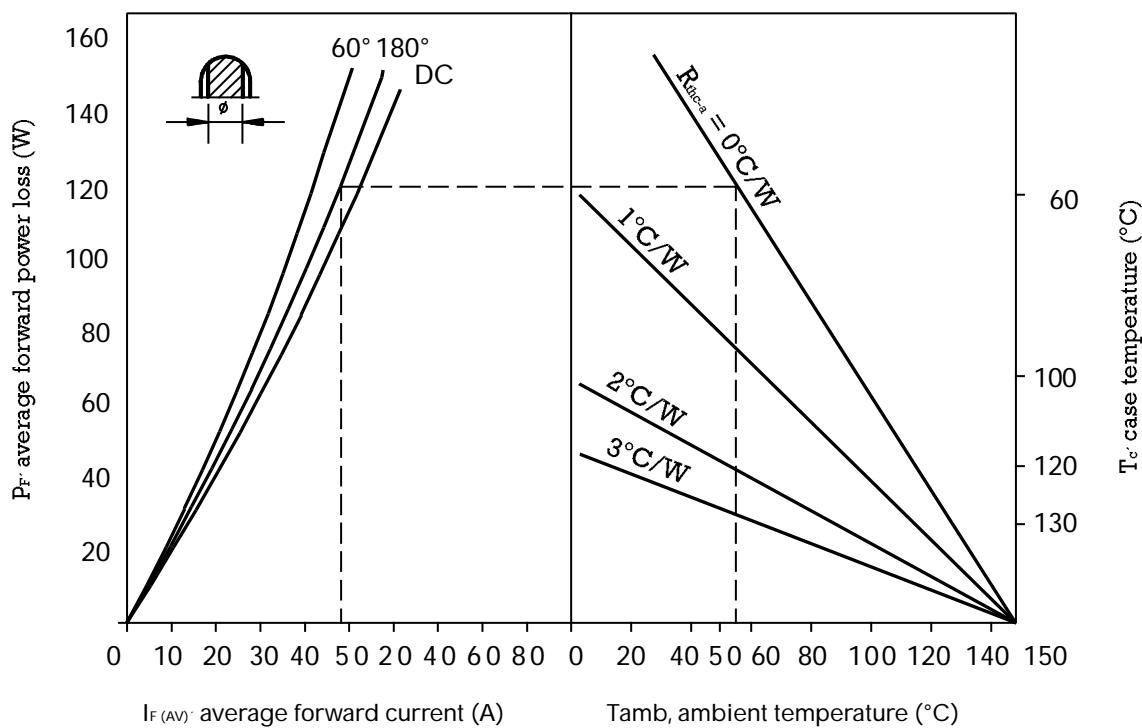
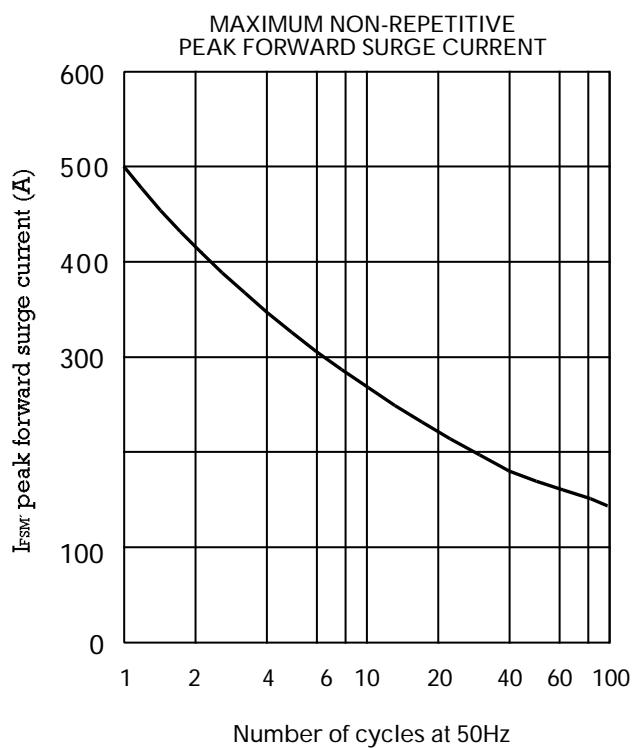
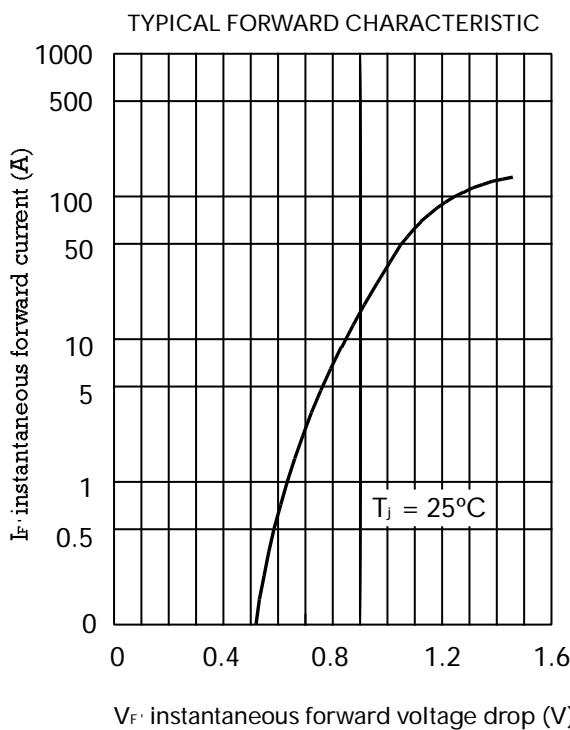
<p>Dimensions in mm.</p>	<p><b>Voltage</b> 50 to 600 V</p> <p><b>Current</b> 50 A</p>
<ul style="list-style-type: none"> <li>• Glass Passivated Junction</li> <li>• UL recognized under component index file number E130180</li> <li>• Terminals: FASTON</li> <li>• Max. Mounting Torque: 25 Kg x cm</li> <li>• Lead and polarity identifications</li> <li>• High surge current capability</li> </ul>	

### Maximum Ratings, according to IEC publication No. 134

		FB 5000	FB 5001	FB 5002	FB 5004	FB 5006
$V_{RRM}$	Peak Recurrent Reverse Voltage (V)	50	100	200	400	600
$V_{RMS}$	Maximum RMS Voltage (V)	35	70	140	280	420
$V_R$	Recommended Input Voltage (V)	20	40	80	125	250
$I_{F(AV)}$	Max. forward current R-load: At T case = 55 °C At T case = 90 °C With Al Square Chassis (200 cm <sup>2</sup> x 3 mm.) Tamb = 45 °C			50 A 35 A 16 A		
$I_{FRM}$	Recurrent peak forward current			150 A		
$I_{FSM}$	10 ms. peak forward current			500 A		
$I^2t$	$I^2t$ value for fusing (t = 10 ms)			1250 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. forward voltage drop per element at $I_F$ = 25 A	1.1 V
$I_R$	Max. reverse current per element at $V_{RRM}$ d.c.	5 µA
$R_{thj-c}$	Typical thermal resistance junction to case	1.2 °C/W
	Isolation voltage from case to leads	2500 Vac



Interrelation between power dissipation and the max. allowable ambient temperature.

Jan - 00