

## 50 Amp. Glass Passivated Bridge Rectifier

<p>Dimensions in mm.</p>	<p>Voltage 50 to 600 V</p> <p>Current 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> </ul> <p>Lead and polarity identifications High surge current capability</p>

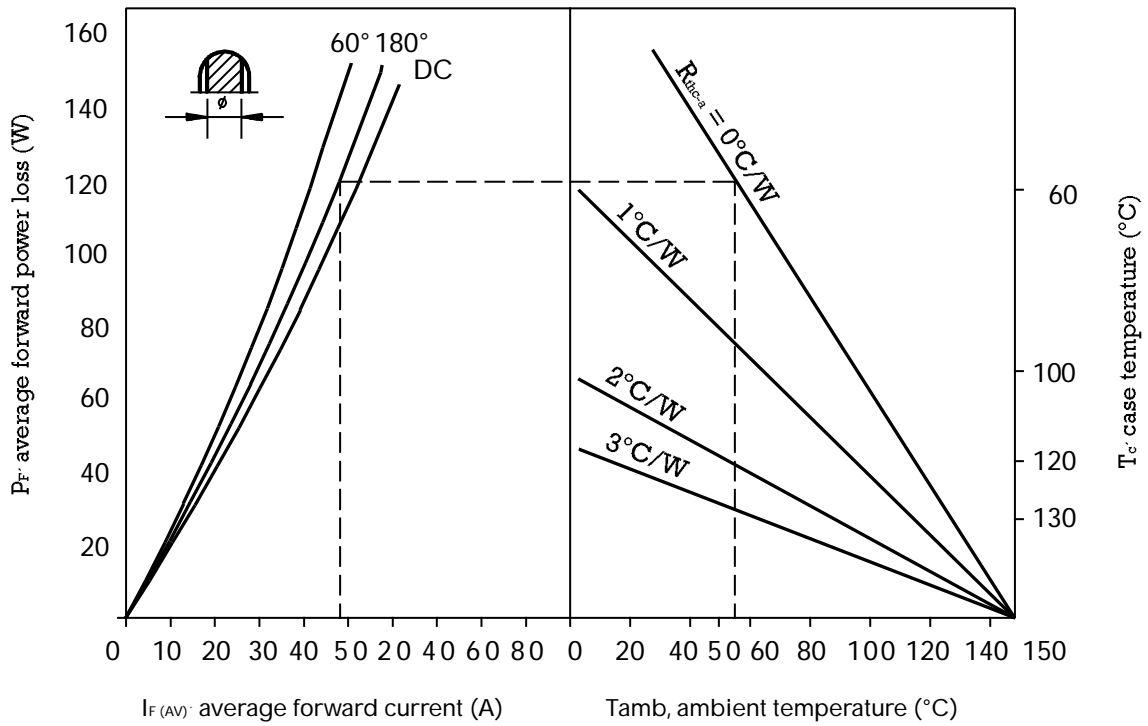
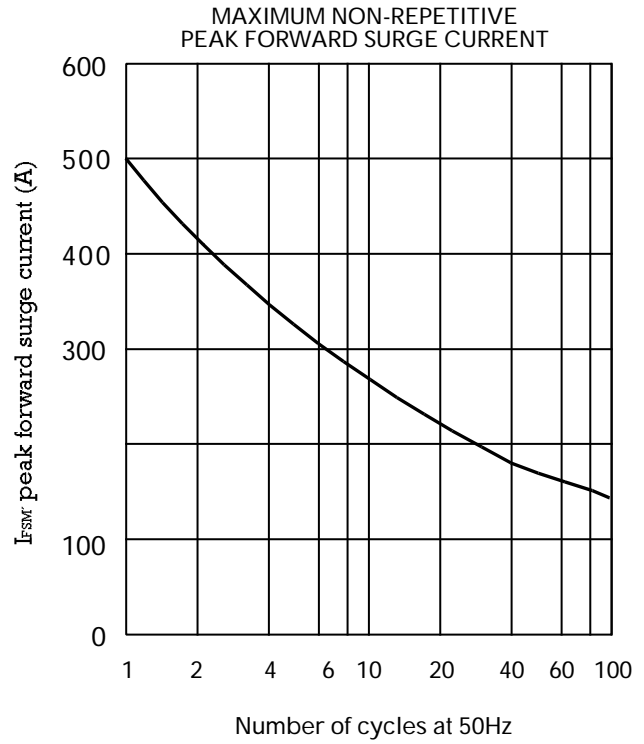
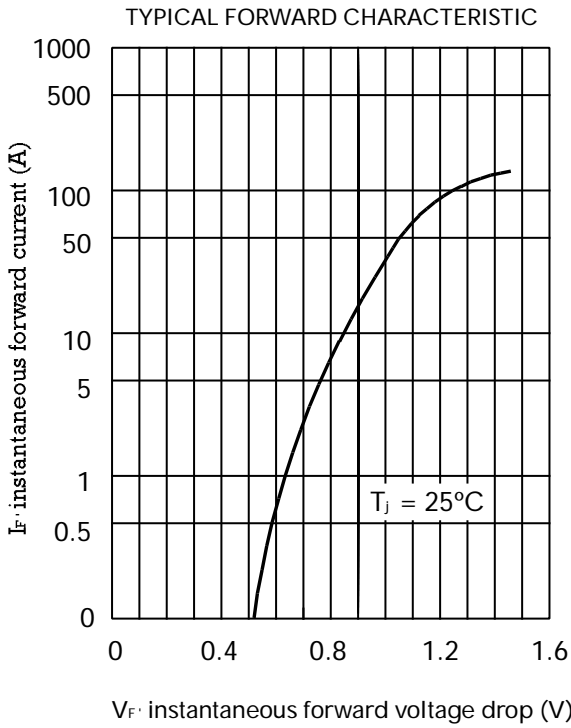
### Maximum Ratings, according to IEC publication No. 134

		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 $\mu$ A
$R_{thj-c}$	Typical thermal resistance junction to case	1.2 °C/W
	Isolation voltage from case to leads	2500 Vac

Characteristic Curves



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