



Part Number	Repetitive Peak Reverse Voltage $V_{RRM}$ V	Max. Bridge Output Voltage $V_{BO}^1$ V	Max. Average Output Current $I_{FAVM}@25^{\circ}C$ A	Max. Forward Voltage Drop (leg) $V_f@55^{\circ}C$ V	Max. Reverse Current $I_R@V_{RRM}@25^{\circ}C$ $\mu A$	Max. Surge Current (leg) $I_{FSM}^1$ A	Max. Reverse Recovery Time $T_{RR}^3$ nS	Figure
<b>51000 Series - Single Phase Fullwave Bridge Rectifier Assembly - Convective Air Cooling</b>								
51012	12000	6000	6	6	6.5	400	-	76
51014	24000	12000	6	12	6.5	400	-	77
<b>51000 Series - Three Phase Fullwave Bridge Rectifier Assembly - Convective Air Cooling</b>								
51013	12000	6000	9	6	6.5	400	-	74
51016	24000	12000	9	9	6.5	400	-	78
<b>52000 Series - Single &amp; Three Phase Rectifier Assembly - Oil Dielectric Use Only<sup>4</sup></b>								
52014	48000 <sup>2</sup>	24000	4	9	5.0	400	-	77
52016	48000 <sup>2</sup>	24000	6	9	5.0	400	-	78

<sup>1</sup> The true  $V_{RRM}$  of diodes used in an MOV compensated assembly is twice the Max Operating Voltage. Max Applied Voltage is limited, not by  $V_{RRM}$  but by the maximum voltage rating of the MOV. Each individual diode is rated at 1000V peak and MOV compensated to give an avalanche rating of 90 Joules max (8 x 20uS) and a  $V_{NOM}$  of 680V.

<sup>2</sup> Average current is based on ambient air temp of 50°C or below with convective cooling and free air movement around assy.

<sup>3</sup> Average current based on ambient air temp of 50°C and below with at least 300 lfm airflow around assy.

<sup>4</sup> The voltage and current rating for the 52000 series parts can be achieved only by complete emersion in dielectric oil such as Shell Diala or equivalent. Contact factory when other dielectric use is intended.

Max storage and operating temperature is -40°C to 125°C. Higher voltage, currents and fast recovery assemblies are available.

Doublers and special configurations, including special lengths, are available on special request. Contact the factory.

Much higher current ratings for 51000 series assemblies are possible when immersed in Shell Diala dielectric or equivalent. Contact Factory.

Product is available in RoHS compliant form. Unless RoHS compliance is requested, existing stocks of non-compliant materials are being shipped.