

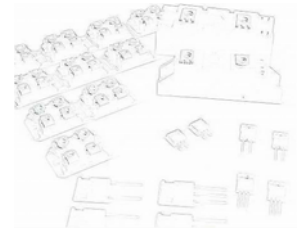
## The Extremely Low $V_F$ Schottkys for High Efficiency Applications

Thursday, 2 October 2008

Sirectifier Global Corp. (SGC) announced that the extremely Low Forward Voltage Drop ( $V_F$ ) Schottkys including various barriers for high efficiency applications such as the "85 or 90 Plus" of CEC level 4 to 5 in the U.S.A. The extremely Low  $V_F$  Schottkys indeed reduced the conduction loss on the switching-mode power supply (SMPS) and then make the efficiency of SMPS higher and higher.

The following information is the normal data of the Low  $V_F$  Schottkys. For further details, please contact SGC at the location nearest you.

NO	P/N	IF (A)	VB (V)	VF (V)		IR (mA) @25° C	Tj(max)	Barrier
				@25° C	@125° C			
<b>30V Serials for 3.3 - 5VDC applications</b>								
1	SBL30L30CT/FCT	30	30	0.45	0.32	1.0	150° C	Alloy
2	SBL4030CT/PT	40	30	0.48	0.35	1.0	150° C	Alloy
<b>45V Serials for 3.3 - 5VDC applications</b>								
1	SBL10SL45CT/FCT	10	45	0.48	0.39	1.0	150° C	Mo
2	SBL10LL45CT/FCT	10	45	0.41	0.32	1.0	150° C	Mo
3	SBL20L45CT/FCT	20	45	0.48	0.39	1.0	150° C	Mo
4	SBL30L45CT/FCT/PT	30	45	0.52	0.35	1.0	150° C	Mo
5	SBL40L45CT/PT	40	45	0.52	0.41	1.0	150° C	Mo
<b>60V Serials for 5 - 12VDC applications</b>								
1	SBL10SL60CT/FCT	10	60	0.52	0.41	1.0	150° C	Mo
2	SBL20L60CT/FCT	20	60	0.52	0.41	1.0	150° C	Mo
3	SBL30L60CT/PT	30	60	0.60	0.45	1.0	150° C	Mo
4	SBL30LL60CT/PT	30	60	0.55	0.40	1.0	150° C	Mo
5	SBL4060CT/PT	40	60	0.65	0.50	1.0	150° C	Mo
6	SBL40L60CT/PT	40	60	0.60	0.45	1.0	150° C	Mo



NO	P/N	IF (A)	VB (V)	VF (V)		IR (mA) @25° C	Tj(max)	Barrier
				@25° C	@125° C			
<b>100V Serials for 9 - 24VDC applications</b>								
1	MBR10L100CT/FCT	10	100	0.72	0.56	0.01	175° C	Pt
2	MBR20HL100CT/FCT	20	100	0.77	0.61	0.01	175° C	Pt
3	MBR20L100CT/FCT	20	100	0.75	0.59	0.01	175° C	Pt
4	MBR30L100CT/PT	30	100	0.79	0.63	0.01	175° C	Pt
5	MBR30LL100PT	30	100	0.76	0.60	0.01	175° C	Pt
6	MBR40L100CT/PT	40	100	0.82	0.76	0.01	175° C	Pt
7	MBR40LL100CT/PT	40	100	0.79	0.63	0.01	175° C	Pt
<b>150V Serials for 12 - 48VDC applications</b>								
1	MBR20L150CT/FCT	20	150	0.80	0.65	0.01	175° C	Pt



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