



## The improved Low $V_F$ Schottkys

Monday, 6 August 2007

Sirectifier Global Corp. (SGC) recently announced that the improved low Forward Voltage Drop ( $V_F$ ) Schottkys of 30V, 45 and 60V families. The improved alloy barrier Schottkys obtained the lowest  $V_F$  characteristic to reduce the conduction loss of the SMPS application.

For example, the  $V_F$  is less than 0.35V (@125°C) of the SBL30L30CT (30A, 30V, TO-220AB). Besides, the Reverse Current Leakage (IR) have reasonable controlled under 1.0mA for make sure the 150°C  $T_j$  (max).

The following information is the normal data of the Low  $V_F$  Schottkys.

NO	P/N	IF (A)	VB (V)	$V_F$ (V)		IR (mA) @25°C	$T_j$ (max)	Barrier
				@25°C	@125°C			
1	SBL3030CT/PT	30	30	0.48	0.35	1.0	150°C	Alloy
2	SBL30L30CT/PT	30	30	0.45	0.32	1.0	150°C	Alloy
3	SBL30L45CT/PT	30	45	0.52	0.41	1.0	150°C	Mo
4	SBL30L55CT/PT	30	55	0.55	0.45	1.0	150°C	Mo
5	SBL3060CT/PT	30	60	0.65	0.50	1.0	150°C	Mo
6	SBL30L60CTPT	30	60	0.60	0.45	1.0	150°C	Mo
7	SBL4030CT/PT	40	30	0.48	0.35	1.0	150°C	Alloy
8	SBL4055CT/PT	40	55	0.58	0.48	1.0	150°C	Mo
9	SBL4060CT/PT	40	60	0.65	0.50	1.0	150°C	Mo

For further details, please contact SGC at the location nearest you.