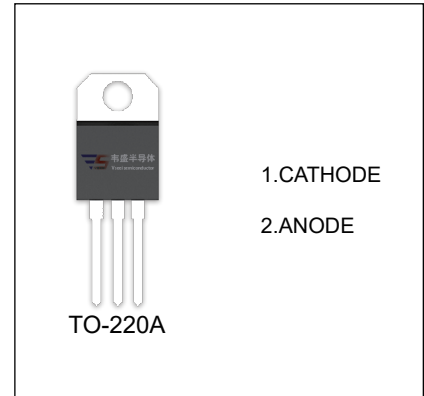


SBL1030,35,40,45,50,60

SCHOTTKY BARRIER RECTIFIER

FEATURES

- Schottky Barrier Chip
- Guard Ring Die Construction for Transient Protection
- Low Power Loss,High Efficiency
- High Surge Capability
- High Current Capability and Low Forward Voltage Drop
- For Use in Low Voltage, High Frequency Inverters,Free Wheeling, and Polarity Protection Applications



MAXIMUM RATINGS (T_a=25°C unless otherwise noted)

Symbol	Parameter	Value						Unit
		SBL 1030	SBL 1035	SBL 1040	SBL 1045	SBL 1050	SBL 1060	
V _{RRM}	Peak repetitive reverse voltage	30	35	40	45	50	60	V
V _{RWM}	Working peak reverse voltage							
V _R	DC blocking voltage							
V _{R(RMS)}	RMS reverse voltage	21	24.5	28	31.5	35	42	V
I _O	Average rectified output current@ T _c =95°C	10						A
I _{FSM}	Non-Repetitive peak forward surge current 8.3ms half sine wave	250						A
P _D	Power dissipation	2						W
R _{θJA}	Thermal resistance from junction to ambient	50						°C/W
T _J	Operating Junction Temperature Range	-40 ~ +125						°C
T _{stg}	Storage Temperature Range	-55 ~ +150						°C

Parameter	Symbol	Device	Test conditions	Min	Typ	Max	Unit
Reverse voltage	$V_{(BR)}$	SBL1030	$I_R=0.5mA$	30			V
		SBL1035		35			
		SBL1040		40			
		SBL1045		45			
		SBL1050		50			
		SBL1060		60			
Reverse current	I_R	SBL1030	$V_R=30V$			0.45	mA
		SBL1035	$V_R=35V$				
		SBL1040	$V_R=40V$				
		SBL1045	$V_R=45V$				
		SBL1050	$V_R=50V$				
		SBL1060	$V_R=60V$				
Forward voltage	V_F	SBL1030-1045	$I_F=10A$			0.55	V
		SBL1050,1060				0.7	