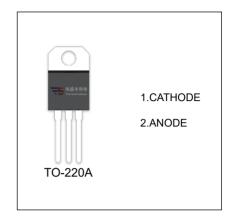


## SBL1030,35,40,45,50,60

## 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 )

		Value						
Symbol	Parameter	SBL	SBL	SBL	SBL	SBL	SBL	Unit
		1030	1035	1040	1045	1050	1060	
$V_{RRM}$	Peak repetitive reverse voltage				45	50	60	V
V <sub>RWM</sub>	Working peak reverse voltage	30	35	40				
V <sub>R</sub>	DC blocking voltage							
V <sub>R(RMS)</sub>	RMS reverse voltage	21	24.5	28	31.5	35	42	V
lo	Average rectified output current@ T₀=95℃	10					А	
I <sub>FSM</sub>	Non-Repetitive peak forward surge current		250					
	8.3ms half sine wave							A
$\mathbf{P}_{D}$	Power dissipation 2				W			
R <sub>OJA</sub>	Thermal resistance from junction to ambient 50					°C/W		
Tj	Operating Junction Temperature Range	-40 ~ +125					°C	
T <sub>stg</sub>	Storage Temperature Range	ge Temperature Range -55 ~ +150					°C	



Parameter	Symbol	Device	Test conditions	Min	Тур	Max	Unit
		SBL1030		30			. V
		SBL1035	I <sub>R</sub> =0.5mA	35			
Poverce veltere	\/	SBL1040		40			
Reverse voltage	$V_{(BR)}$	SBL1045		45			
		SBL1050		50			
		SBL1060		60			
		SBL1030	V <sub>R</sub> =30V				
		SBL1035	V <sub>R</sub> =35V				mA
Reverse current		SBL1040	V <sub>R</sub> =40V			0.45	
Reverse current	I <sub>R</sub>	SBL1045	V <sub>R</sub> =45V			0.45	
		SBL1050	V <sub>R</sub> =50V				
		SBL1060	V <sub>R</sub> =60V				
Forward voltage	je V <sub>F</sub>	SBL1030-1045	I <sub>F</sub> =10A			0.55 0.7	V
Forward voltage		SBL1050,1060	1F-10A				



