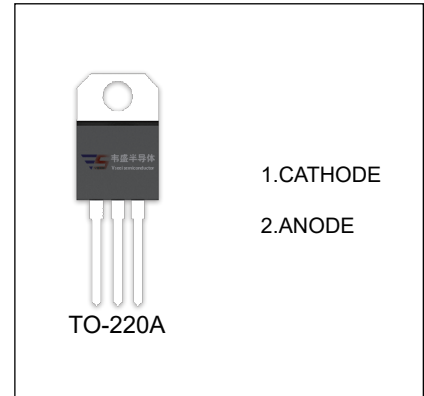


## SBL1030,35,40,45,50,60

### SCHOTTKY BARRIER RECTIFIER

#### FEATURES

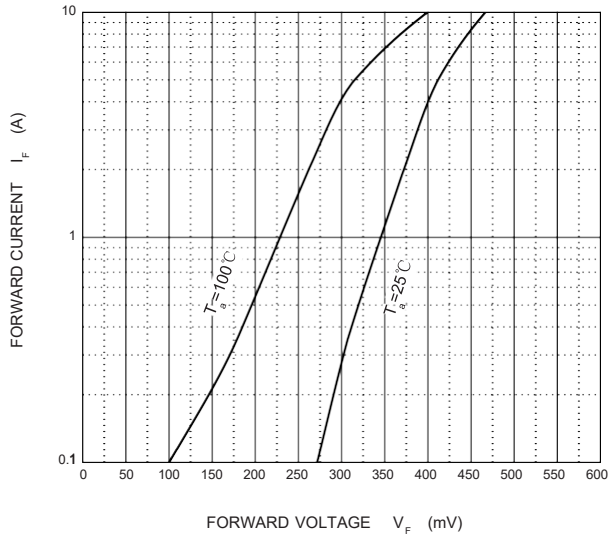
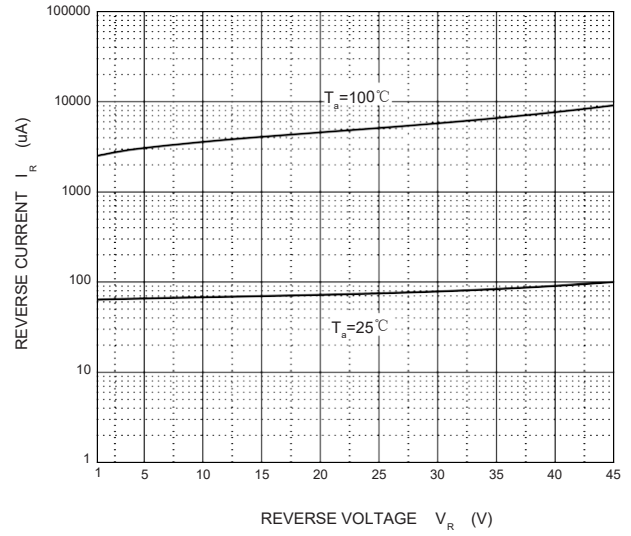
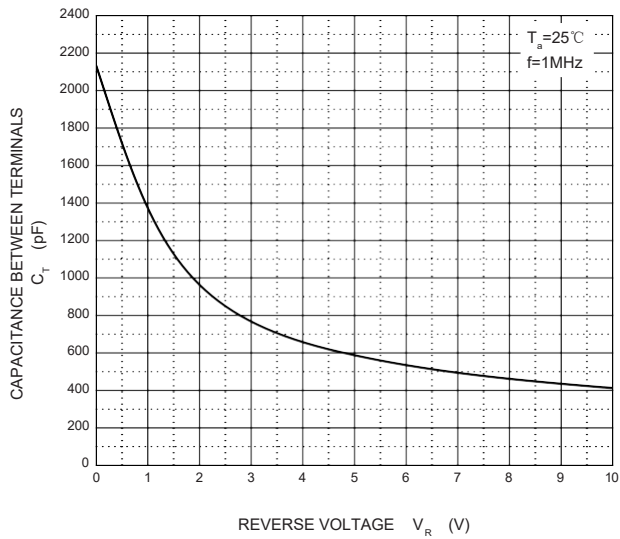
- Schottky Barrier Chip
- Guard Ring Die Construction for Transient Protection
- Low Power Loss,High Efficiency
- High Surge Capability
- High Current Capability and Low Forward Voltage Drop
- For Use in Low Voltage, High Frequency Inverters,Free Wheeling, and Polarity Protection Applications



#### MAXIMUM RATINGS ( $T_a=25^{\circ}\text{C}$ 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@ $T_c=95^{\circ}\text{C}$	10						A
$I_{FSM}$	Non-Repetitive peak forward surge current 8.3ms half sine wave	250						A
$P_D$	Power dissipation	2						W
$R_{\theta JA}$	Thermal resistance from junction to ambient	50						$^{\circ}\text{C}/\text{W}$
$T_J$	Operating Junction Temperature Range	$-40 \sim +125$						$^{\circ}\text{C}$
$T_{stg}$	Storage Temperature Range	$-55 \sim +150$						$^{\circ}\text{C}$

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	

**Forward Characteristics**

**Reverse Characteristics**

**Capacitance Characteristics**

**Power Derating Curve**
