

WAN LI ELECTRONICS (WUXI) CO.,LTD

TO-220 Plastic-Encapsulate Diodes

SBL3030~3060CT

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

TO-220 1. ANODE 2. CATHODE 3. ANODE 1

ELECTRICAL CHARACTERISTICS (Ta=25℃ unless otherwise specified)

Characteristic	Symbol	SBL 3030CT	SBL 3035CT	SBL 3040CT	SBL 3050CT	SBL 3060CT	Unit
Peak Repetitive Reverse Voltage	V _{RRM}						
Working Peak Reverse Voltage	V _{RWM}	30	35	40	50	60	V
DC Blocking Voltage	VR						
RMS Reverse Voltage	V _{R(RMS)}	21	24.5	28	35	42	V
Average Rectified Output Current	l _o 30					А	
(Note 1) @ T _C =95℃							
Non-Repetitive Peak Forward Surge Current							
8.3ms Single half sine-wave superimposed on	I _{FSM}	250					А
rated load (JEDEC Method)							
Forward Voltage Drop @ I _F =15A, T _C =25℃	V_{FM}	0.55 0.7			V		
Peak Reverse Current @ T _C = 25℃	I	1 75					mA
at Rated DC Blocking Voltage @ Tc=100°C	IRM						
Typical Junction Capacitance (Note 2)	Cj	1100					pF
Typical Thermal Resistance Junction to Case (Note 1)	R θ JC	2.5					°C/W
Operating and Storage Temperature Range	T_{j},T_{STG}	-55 to +150					°C

Notes:1. Thermal resistance junction to case mounted on heatsink.

2. Measured at 1.0MHz and Applied Reverse Voltage of 4.0V DC.

Typical Characteristics

SBL3030~3060CT

