

SBL4030PT - SBL4060PT

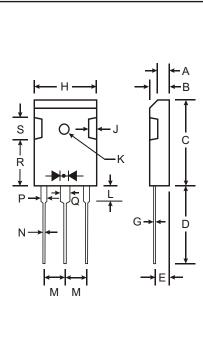
40A SCHOTTKY BARRIER RECTIFIER

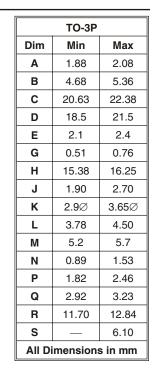
Features

- 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 Application

Mechanical Data

- Case: Molded Plastic
- Plastic Material: UL Flammability Classification Rating 94V-0
- Moisture sensitivity: Level 1 per J-STD-020A
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: As Marked on Body
- Marking: Type Number
- Weight: 5.6 grams (approx.)





Maximum Ratings and Electrical Characteristics @ T_A = 25°C unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	SBL 4030PT	SBL 4035PT	SBL 4040PT	SBL 4045PT	SBL 4050PT	SBL 4060PT	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	30	35	40	45	50	60	V
RMS Reverse Voltage	V _{R(RMS)}	21	24.5	28	31.5	35	42	V
Average Rectified Output Current @ $T_C = 100^{\circ}C$ (Note 1)	lo	40						А
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	375					А	
Forward Voltage Drop @ $I_F = 20A$, $T_C = 25^{\circ}C$	V _{FM}	0.58 0.70				V		
Peak Reverse Current@ $T_C = 25^{\circ}C$ at Rated DC Blocking Voltage@ $T_C = 100^{\circ}C$	I _{RM}	1.0 100					mA	
Typical Total Capacitance (Note 2)	CT	800						pF
Typical Thermal Resistance Junction to Case (Note 1)	R _{0JC}	1.4					°C/W	
Operating Temperature Range	Tj	-55 to +125					°C	
Storage Temperature Range	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.

