imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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SBL3030PT - SBL3060PT

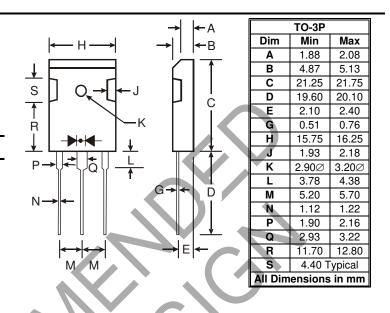
30A SCHOTTKY BARRIER RECTIFIER

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
- Lead Free Finish, RoHS Compliant (Note 3)

Mechanical Data

- Case: TO-3P •
- Case Material: Molded Plastic. UL Flammability . Classification Rating 94V-0
- Moisture Sensitivity: Level 1 per J-STD-020C
- Terminals: Finish Tin. Solderable per MIL-STD-202, Method 208 @3
- Polarity: As Marked on Body
- Ordering Information: See Page 3
- Marking: Type Number
- Weight: 5.6 grams (approximate)



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%

T OF Capacitive IDau, derate current by 20 %.								
Characteristic	Symbol	SBL 3030PT	SBL 3035PT	SBL 3040PT	SBL 3045PT	SBL 3050PT	SBL 3060PT	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 $@T_C = 95^{\circ}C$ (Note 1)	lo	30				А		
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load	I _{FSM}	275					А	
Forward Voltage Drop $@ I_F = 15A, T_C = 25^{\circ}C$	V _{FM}	0.55 0.70			70	V		
Peak Reverse Current@ $T_C = 25^{\circ}C$ at Rated DC Blocking Voltage@ $T_C = 100^{\circ}C$	I _{RM}	1.0 75			mA			
Typical Total Capacitance (Note 2)	CT	1100			pF			
Typical Thermal Resistance Junction to Case (Note 1)	$R_{ ext{ heta}Jc}$	2.0			°C/W			
Operating and Storage Temperature Range	Tj, TSTG			-65 to	+150			°C

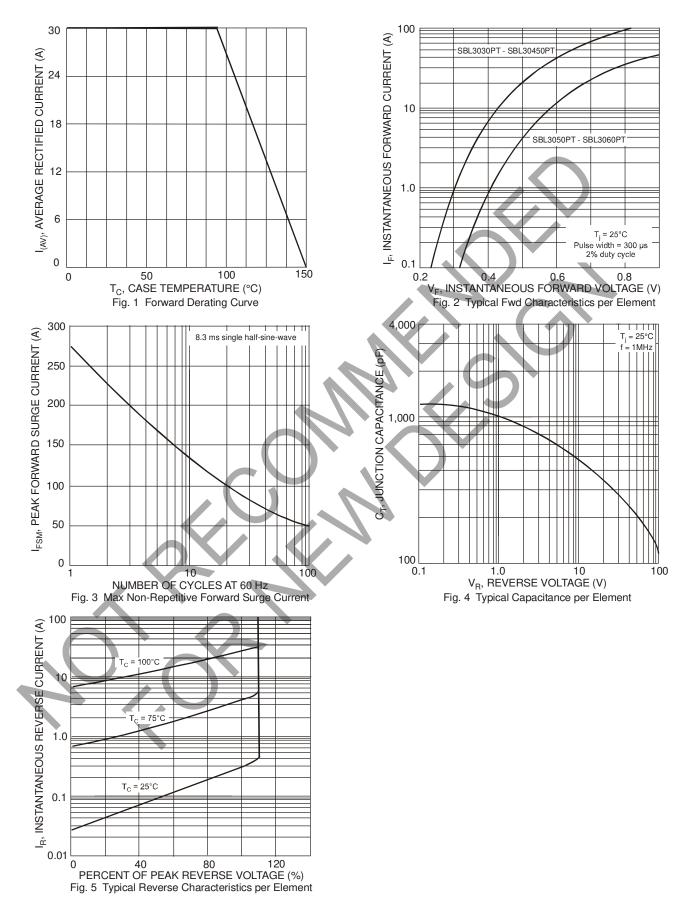
Notes:

1. Thermal resistance junction to case mounted on heatsink. 2. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

3. RoHS revision 13.2.2003. Glass and high temperature solder exemptions applied, see EU Directive Annex Notes 5 and 7.









Ordering Information (Note 4)

Device	Packaging	Shipping
SBL3030PT	TO-3P	30/Tube
SBL3035PT	TO-3P	30/Tube
SBL3040PT	TO-3P	30/Tube
SBL3045PT	TO-3P	30/Tube
SBL3050PT	TO-3P	_30/Tube
SBL3060PT	TO-3P	30/Tube

Notes: 4. For packaging details, visit our website at http://www.diodes.com/datasheets/ap02008.pdf.

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