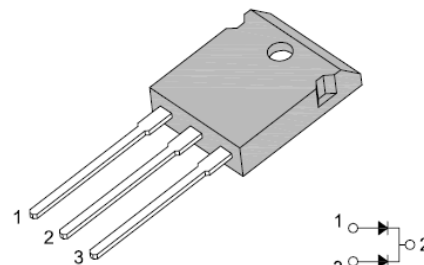


## 30A Schottky Barrier Rectifiers

### Features

- Low Forward Voltage
- Low Switching noise
- High Current Capacity
- Guarantee Reverse Avalanche
- Guard-Ring for Stress Protection
- Low Power Loss and High Efficiency
- 150°C Operating Junction Temperature
- Low Stored Charge Majority Carrier Conduction
- RoHS compliance



TO-3P



### Mechanical Data

<b>Case:</b>	TO-3P, molded plastic body
<b>Epoxy:</b>	Plastic package has UL flammability classification 94V-0
<b>Terminals:</b>	Matte tin plated leads, solderable per J-STD-002 and JESD22-B102
<b>Polarity</b>	As marked
<b>Mounting Position:</b>	Any
<b>Mounting Torque:</b>	10 in-lbs maximum
<b>Weight:</b>	0.22 ounce, 6.2 gram

### Maximum Ratings ( $T_{Ambient}=25^{\circ}C$ unless noted otherwise)

Symbol	Description	SBL 3030PT	SBL 3035PT	SBL 3040PT	SBL 3045PT	SBL 3050PT	SBL 3060PT	Unit	Conditions
<b>VRRM</b>	Maximum Repetitive Peak Reverse Voltage	30	35	40	45	50	60	V	
<b>VRWM</b>	Working Peak Reverse Voltage	30	35	40	45	50	60	V	
<b>VDC</b>	Maximum DC Blocking Voltage	30	35	40	45	50	60	V	
<b>VR(RMS)</b>	RMS Reverse Voltage	21	25	28	32	35	42	V	
<b>IF(AV)</b>	Maximum Average Forward Rectified Current	30						A	Total Device (Rated VR), TC=125°C
<b>IFM</b>	Peak Repetitive Forward Current	30						A	Rate VR, Square Wave, 20kHz
<b>IFSM</b>	Peak Forward Surge Current per Diode	300						A	Half-wave, single phase, 60Hz
<b>TJ, TSTG</b>	Operating and Storage Junction Temperature	-65 to +150						°C	

# 30A Schottky Barrier Rectifiers

## SBL3030PT - SBL3060PT

### Electrical Characteristics *(T<sub>Ambient</sub>=25°C unless noted otherwise)*

Symbol	Description	SBL 3030PT	SBL 3035PT	SBL 3040PT	SBL 3045PT	SBL 3050PT	SBL 3060PT	Unit	Conditions
<b>V<sub>F</sub></b>	Maximum Instantaneous Forward Voltage per Diode	0.55				0.65		V	IF=15A, TC=25 °C
		0.45				0.55			IF=15A, TC=100 °C
<b>I<sub>R</sub></b>	Maximum Instantaneous Reverse Current at rated DC Blocking Voltage per Diode	0.5						mA	TC=25 °C
		30							TC=125°C
<b>R<sub>θ-JC</sub></b>	Maximum Thermal Resistance	2.8						° C/W	

### Typical Characteristics Curves

Fig.1- Forward Current Derating Curve

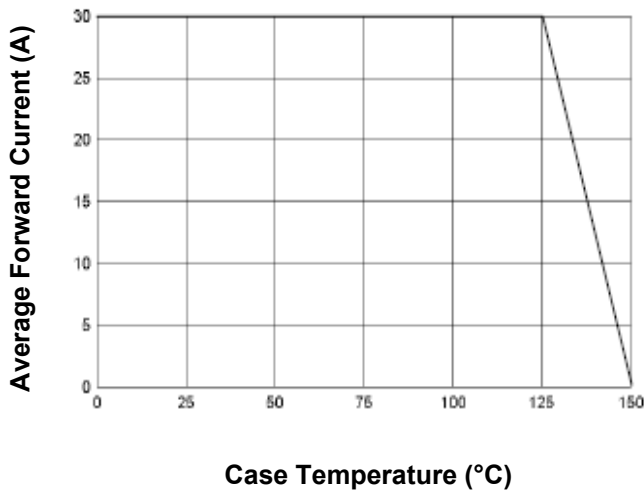
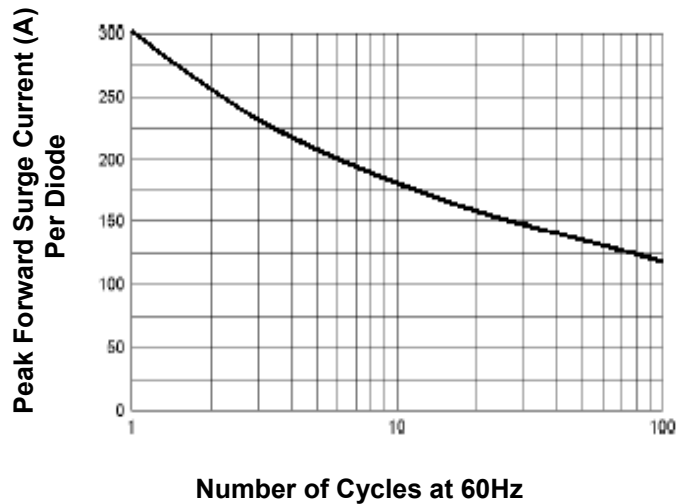


Fig.2- Peak Forward Surge Current



# 30A Schottky Barrier Rectifiers

## SBL3030PT - SBL3060PT

Fig.3- Typical Instantaneous Forward Characteristics

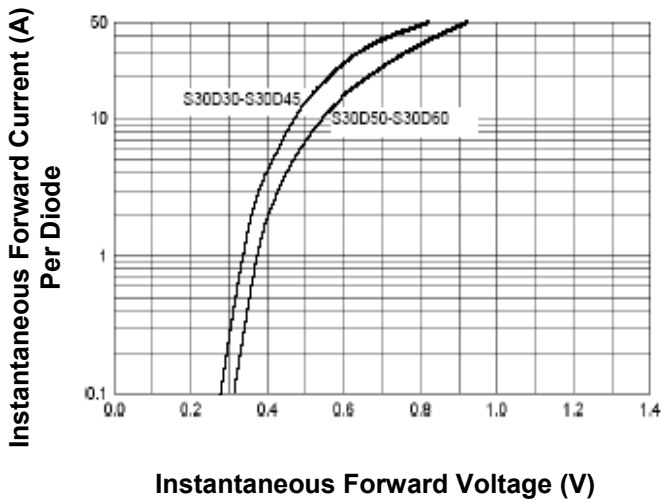


Fig.4- Typical Reverse Characteristics

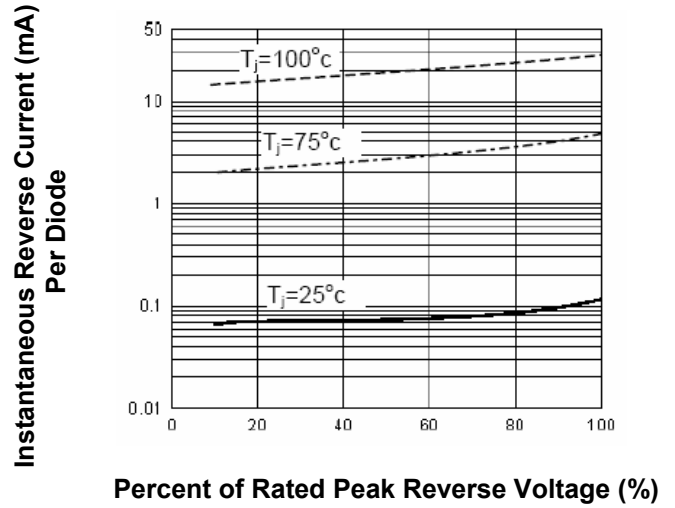
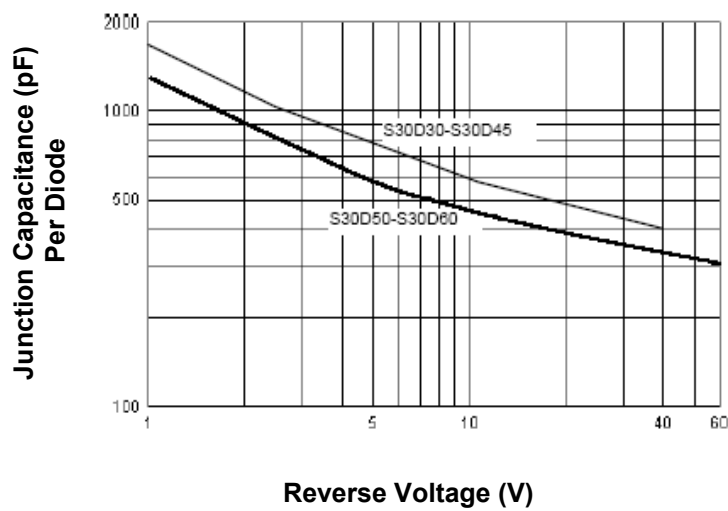


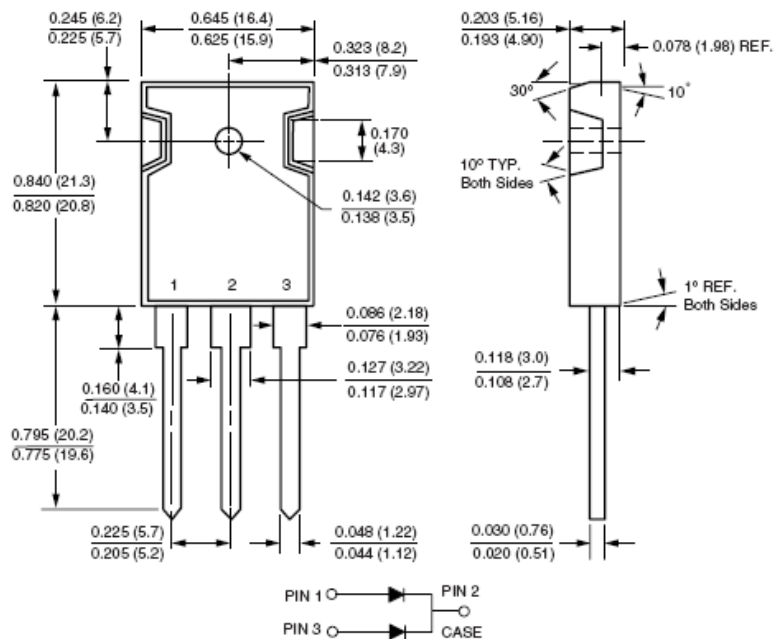
Fig.5- Typical Junction Capacitance



# 30A Schottky Barrier Rectifiers

## SBL3030PT - SBL3060PT

### Dimensions in inches (mm)



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### TO-3P

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