

**Micro Commercial Components** 

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### **Features**

- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates RoHS Compliant. See ordering information)
- High Surge Capacity and High Efficiency
- Low Power Loss and Low Forward Voltage
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 1

# Maximum Ratings

- Operating Temperature: -50 °C to +125°C
- Storage Temperature: -50°C to +125°C

MCC Catalog Number	Device Marking	Maximum Reccurrent Peak Reverse	Maximum RMS Voltage	Maximum DC Blocking Voltage
SBL820	SBL820	Voltage 20V	14V	20V
SBL830	SBL830	30V	21V	30V
SBL840	SBL840	40V	28V	40V
SBL850	SBL850	50V	35V	50V
SBL860	SBL860	60V	42V	60V

#### Electrical Characteristics @ 25°C Unless Otherwise Specified

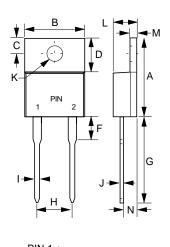
Average Forward Current	I <sub>F(AV)</sub>	8A	T <sub>C</sub> = 100 °C
Peak Forward Surge Current	I <sub>FSM</sub>	150 A	8.3ms, half sine
Maximum Forward Voltage Drop Per Element SBL820~840 SBL850~860	V <sub>F</sub>	.55V .75V	$I_{FM} = 8A$ $T_A = 25^{\circ}C \text{ (Note 2)}$
Maximum DC Reverse Current At Rated DC Blocking Voltage	lR	0.5 m A 50m A	T <sub>C</sub> = 25°C T <sub>C</sub> = 125°C

Notes:1. High Temperature Solder Exemption Applied, see EU Directive Annex 7. 2.Pulse test: Pulse width 200 µsec

# **SBL820** THRU **SBL860**

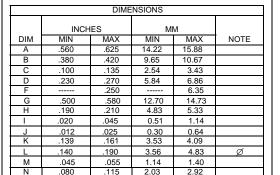
# 8 Amp **Schottky Barrier** Rectifier 20 to 60 Volts

## **TO-220AC**



PIN 2 **→** 

~ CASE

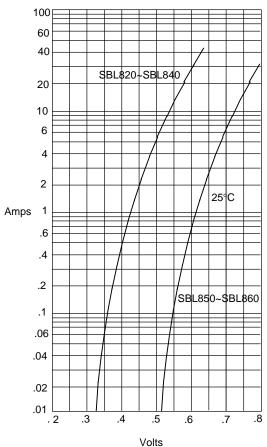


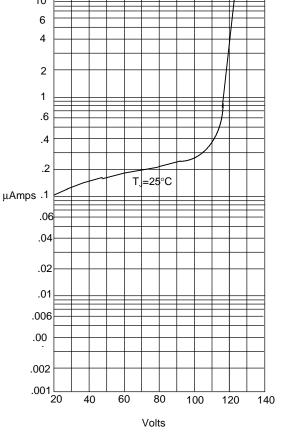
### SBL820 thru SBL860

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Figure 1 Typical Forward Characteristics

Figure 2 **Micro Commercial Components** Typical Reverse Characteristics

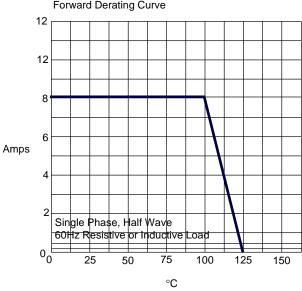


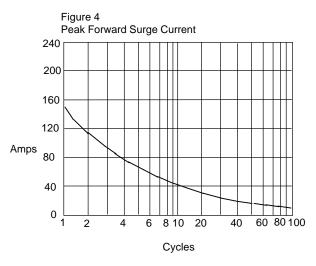


Instantaneous Forward Current - Amperesversus Instantaneous Forward Voltage - Volts

Instantaneous Reverse Leakage Current - MicroAmperesversus Percent Of Rated Peak Reverse Voltage - Volts







Average Forward Rectified Current - Amperesversus Ambient Temperature -°C

Peak Forward Surge Current - Amperesversus Number Of Cycles At 60Hz - Cycles



### **Ordering Information**

Device	Packing	
(Part Number)-BP	Bulk;1Kpcs/Box	

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