



Micro Commercial Components

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 20736 Marilla Street Chatsworth  
 CA 91311  
 Phone: (818) 701-4933  
 Fax: (818) 701-4939

# SBL1620CT THRU SBL1660CT

## Features

- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates RoHS Compliant. See ordering information)
- Metal of silicon rectifier, majority carrier conduction
- High current capability, low  $V_F$
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 1

## Maximum Ratings

- Operating Temperature:  $-55^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$
- Storage Temperature:  $-55^{\circ}\text{C}$  to  $+150^{\circ}\text{C}$
- For capacitive load, derate current by 20%

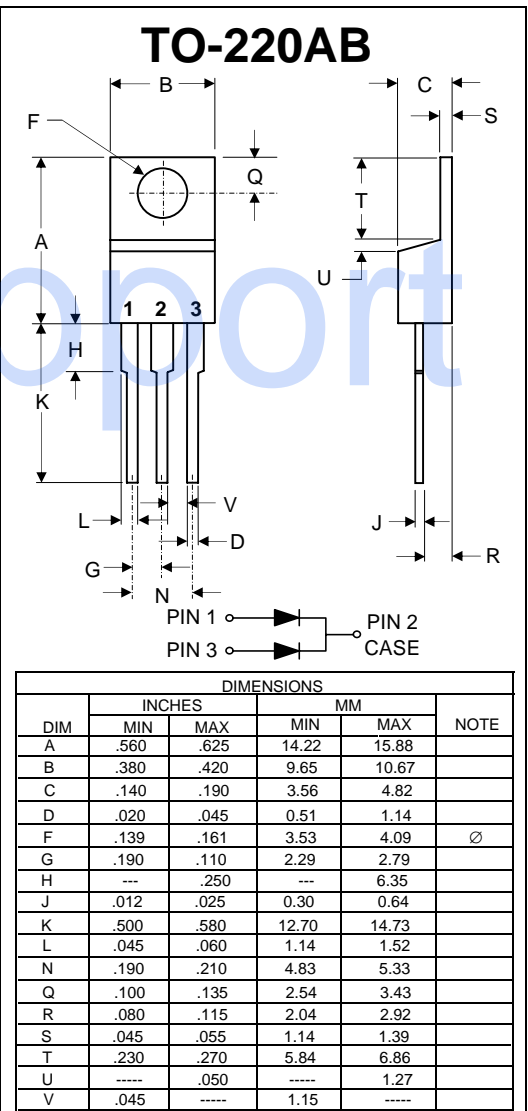
## 16 Amp Schottky Barrier Rectifier 20 to 60 Volts

MCC Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
SBL1620CT	20V	14V	20V
SBL1630CT	30V	21V	30V
SBL1635CT	35V	24.5V	35V
SBL1640CT	40V	28V	40V
SBL1645CT	45V	31.5V	45V
SBL1650CT	50V	35V	50V
SBL1660CT	60V	42V	60V

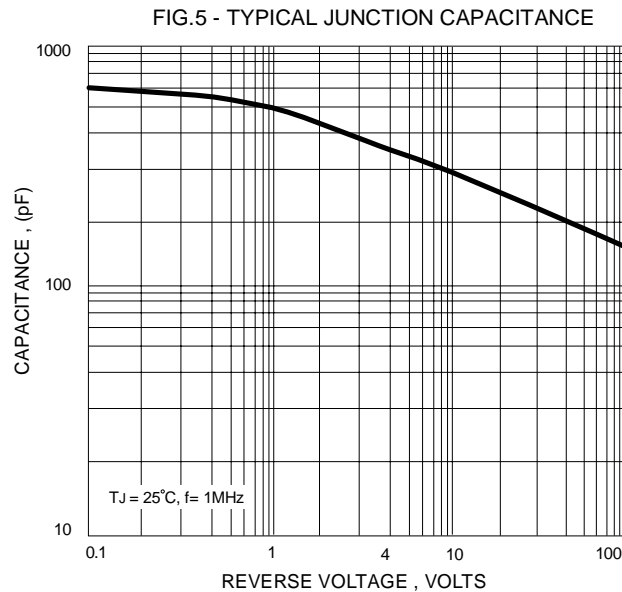
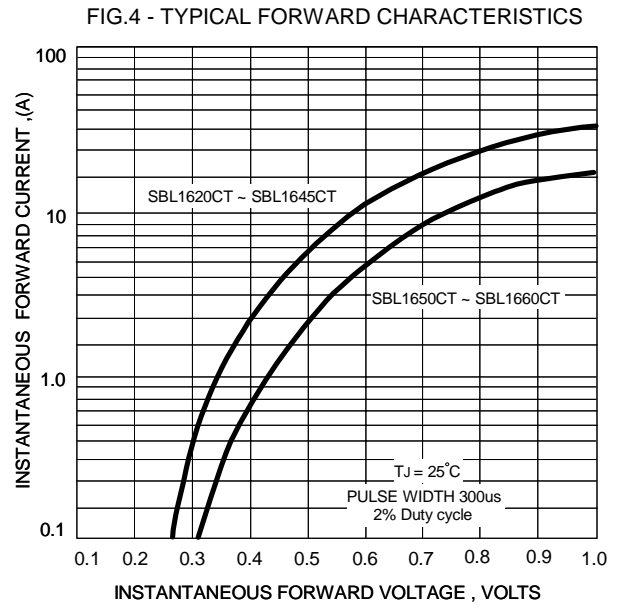
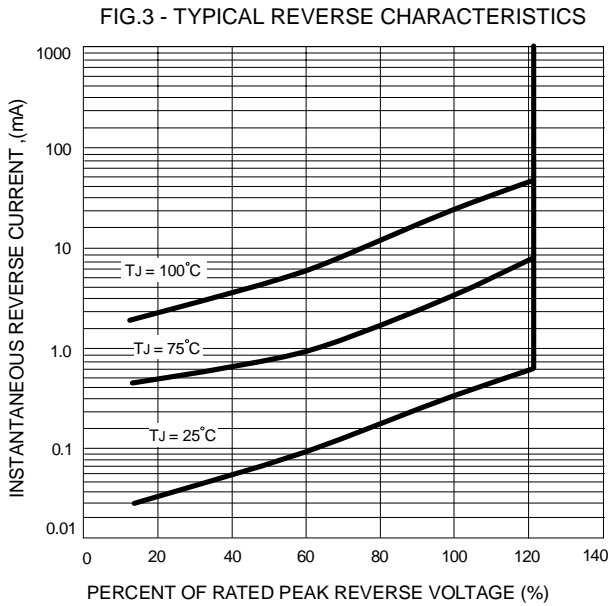
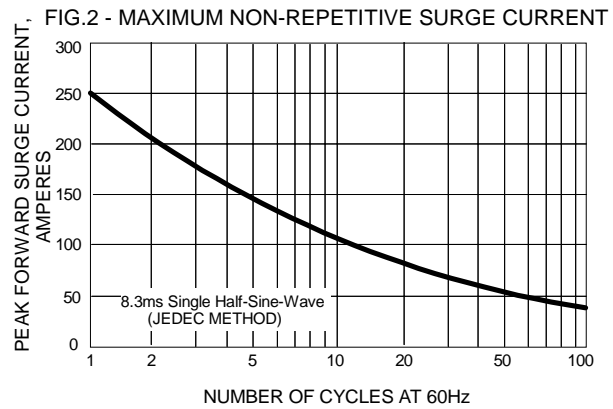
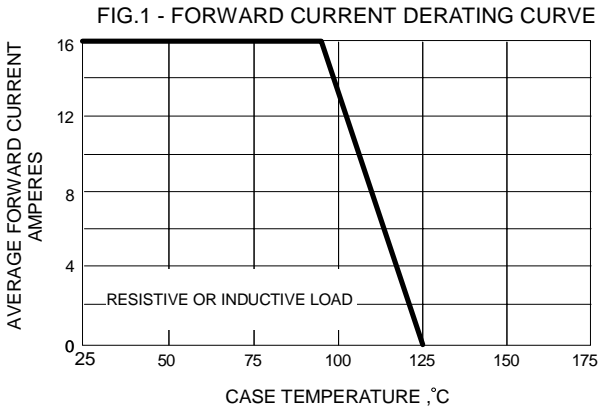
## Electrical Characteristics @ $25^{\circ}\text{C}$ Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	16A	$T_C = 95^{\circ}\text{C}$
Peak Forward Surge Current	$I_{FSM}$	250A	8.3ms, half sine
Maximum Instantaneous Forward Voltage SBL1620CT-1645CT SBL1650CT-1660CT	$V_F$	0.55V 0.70V	$I_{FM} = 8A;$ $T_C = 25^{\circ}\text{C}$
Maximum DC Reverse Current At Rated DC Blocking Voltage	$I_R$	0.5mA 50mA	$T_J = 25^{\circ}\text{C}$ $T_J = 100^{\circ}\text{C}$
Typical Junction Capacitance	$C_J$	350pF	Measured at 1.0MHz, $V_R = 4.0V$
Typical Thermal Resistance, Junction to Case	$R_{\theta JC}$	$2.5^{\circ}\text{C}/W$	

Notes:1.High Temperature Solder Exemption Applied, see EU Directive Annex 7.



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## Ordering Information

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