

RoHS Compliant Product  
A suffix of "-C" specifies halogen & lead-free

## FEATURES

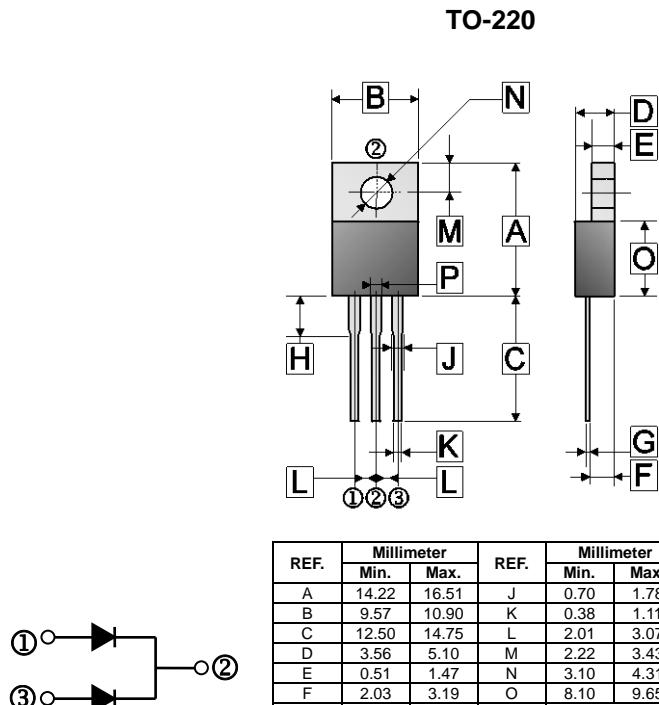
- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability
- Epitaxial Construction

## MECHANICAL DATA

- Case: Molded Plastic
- Epoxy: UL94V-0 Rate Flame Retardant
- Lead: Lead Solderable per MIL-STD-202 Method 208 Guaranteed
- Polarity: As Marked
- Mounting Position: Any

## ORDER INFORMATION

Part Number	Type
SBR20200	Lead (Pb)-free
SBR20200-C	Lead (Pb)-free and Halogen-free



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	14.22	16.51	J	0.70	1.78
B	9.57	10.90	K	0.38	1.11
C	12.50	14.75	L	2.01	3.07
D	3.56	5.10	M	2.22	3.43
E	0.51	1.47	N	3.10	4.31
F	2.03	3.19	O	8.10	9.65
G	0.279	0.76	P	1.18 TYP.	
H	2.95	4.5			

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Rating 25°C ambient temperature unless otherwise specified. Single phase half wave, 60Hz, resistive or inductive load.  
For capacitive load, de-rate current by 20%.)

Parameter	Symbol	Rating	Unit
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	200	V
Working Peak Reverse Voltage	$V_{RSM}$	200	V
Maximum DC Blocking Voltage	$V_{DC}$	200	V
Maximum Average Forward Rectified Current	$I_F$	10	A
		20	
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	$I_{FSM}$	180	A
Maximum Instantaneous Forward Voltage @ $I_F=10A$	$V_F$	0.92	V
		0.8	
Maximum DC Reverse Current at Rated DC Blocking Voltage <sup>2</sup>	$I_R$	0.02	mA
		5	
Typical Junction Capacitance <sup>1</sup>	$C_J$	190	pF
Typical Thermal Resistance	$R_{\theta JA}$	10	°C/W
	$R_{\theta JC}$	2	
Voltage Rate Of Change (Rated $V_R$ )	$dv/dt$	10000	V/μs
Operating Temperature Range	$T_J$	-50~150	°C
Storage Temperature Range	$T_{STG}$	-65~175	

Notes:

1. Measured at 1MHz and applied reverse voltage of 1V D.C.
2. Pulse test: 300uS pulse width, 1% duty cycle.

## RATINGS AND CHARACTERISTIC CURVES

