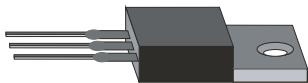


RoHS Compliant Product
A suffix of "C" specifies halogen free


## FEATURES

- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability
- Epitaxial construction

## MECHANICAL DATA

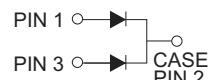
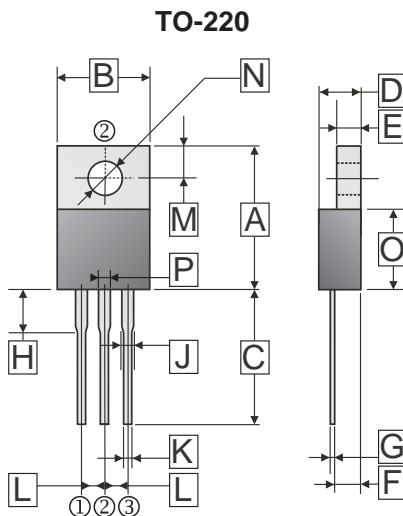
- Case: Molded plastic
- Epoxy: UL94V-0 rate flame retardant
- Lead: Lead solderable per MIL-STD-202 method 208 guaranteed
- Polarity: As Marked
- Mounting position: Any
- Weight: 1.93 grams (approximate)

## 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%.



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	14.22	16.51	J	1.09	1.78
B	9.65	10.67	K	0.38	1.02
C	12.50	14.75	L	2.39	2.69
D	3.56	4.90	M	2.50	3.43
E	0.51	1.45	N	3.10	4.09
F	2.03	2.92	O	8.38	9.65
G	0.31	0.76	P	0.89	1.45
H	4.93 (TYP)				

TYPE NUMBER	SYMBOL	SBR10100		UNITS
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	100		V
Working Peak Reverse Voltage	$V_{RSM}$	100		V
Maximum DC Blocking Voltage	$V_{DC}$	100		V
Maximum Average Forward Rectified Current Per Leg	$I_F$	5		A
Per Device		10		
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	$I_{FSM}$	130		A
Maximum Instantaneous Forward Voltage $I_F = 5 \text{ A}, T_A = 25^\circ\text{C}$ , per leg	$V_F$	0.82		V
$I_F = 5 \text{ A}, T_A = 125^\circ\text{C}$ , per leg		0.70		
Maximum DC Reverse Current $T_A = 25^\circ\text{C}$	$I_R$	0.05		mA
at Rated DC Blocking Voltage $T_A = 100^\circ\text{C}$		10		
Typical Junction Capacitance (Note 1)	$C_J$	350		pF
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	2.5		°C /W
	$dv / dt$	10000		V / μs
Operating Temperature Range $T_J$	$T_J$	-50 ~ +150		°C
Storage Temperature Range $T_{STG}$	$T_{STG}$	-65 ~ +175		°C

### NOTES:

1. Measured at 1MHz and applied reverse voltage of 5.0V D.C.
2. Thermal Resistance Junction to Case.

## RATINGS AND CHARACTERISTIC CURVES (SBR10100)

