

ALTERNATOR DIODE FOR AUTOMOTIVE APPLICATION.

FEATURES

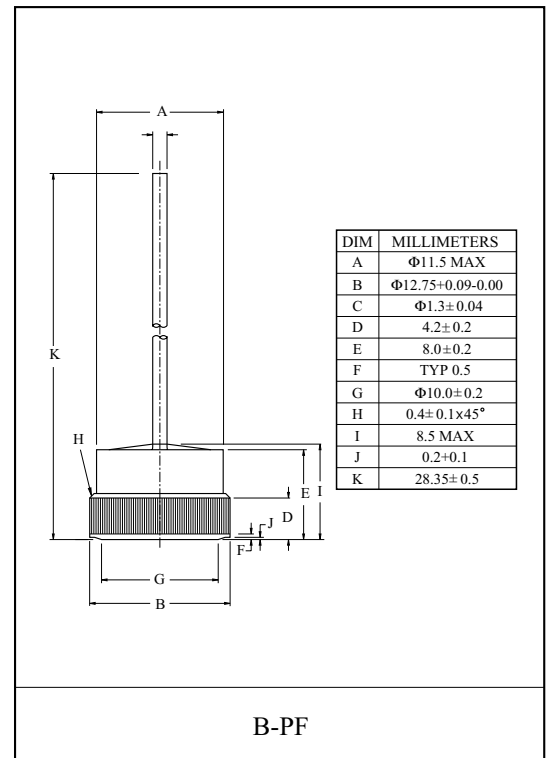
- Average Forward Current : $I_O=50A$.
- Repetitive Peak Reverse Voltage : $V_{RRM}=200V$

POLARITY

E50A2CBS (+ Type) E50A2CBR (- Type)

MAXIMUM RATING (Ta=25)

| CHARACTERISTIC | SYMBOL | RATING | UNIT |
|---------------------------------|-------------|------------|------|
| Average Forward Current | $I_{F(AV)}$ | 50 | A |
| Peak 1 Cycle Surge Current | I_{FSM} | 380 (60Hz) | A |
| Repetitive Peak Reverse Voltage | V_{RRM} | 200 | V |
| Junction Temperature | T_j | -40 215 | |
| Storage Temperature Range | T_{stg} | -40 215 | |



ELECTRICAL CHARACTERISTICS (Ta=25)

| CHARACTERISTIC | SYMBOL | TEST CONDITION | MIN. | TYP. | MAX. | UNIT |
|--|----------|-------------------------------------|------|------|------|------|
| Forward Voltage | V_F | $I_{FM}=100A$ | - | - | 1.05 | V |
| Reverse Voltage | V_R | $I_R=5mA$ | 200 | - | - | V |
| Reverse Current | I_R | $V_R=200V$ | - | - | 50 | μA |
| Transient Thermal Resistance | V_F | $I_{FM}=100A, I_M=100mA, P_w=100ms$ | - | - | 80 | mV |
| Reverse Leakage Current Under High Temperature | HI_R | $T_a=150, V_R=200V$ | - | - | 2.5 | mA |
| Reverse Recovery Time | t_{rr} | $I_F=100mA, I_R=100mA$ | - | - | 15 | μs |
| Temperature Resistance | R_{th} | DC total Junction to case | - | - | 0.6 | /W |