

Schottky Barrier Rectifier

DSA30C200PB

FEATURES

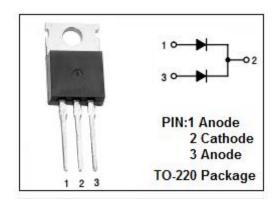
- Plastic material used carriers Unerwriter Laboratory
- Metal silicon rectifier, majorty carrier conduction
- · Low Power Loss, High Efficiency
- · Guard ring for transient protection
- High Surge Capability, High Current Capability
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

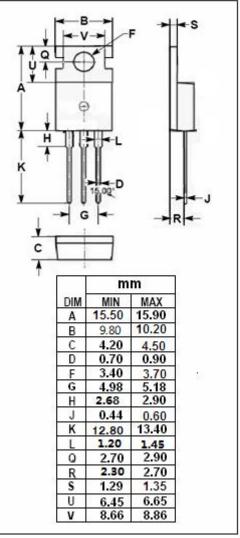


• For use in low voltage ,high frequency inverters,free wheeling and polarity protection applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

| SYMBOL | PARAMETER | VALUE | UNIT |
|--|--|---------|---------------|
| V _{RRM} V _{RWM} V _R | Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage | 200 | V |
| $V_{R(RMS)}$ | RMS Reverse Voltag | 140 | V |
| I _{F(AV)} | Average Rectified Forward Current | 30 | Α |
| IFSM | Nonrepetitive Peak Surge Current 8.3ms single half sine-wave superimposed on rated load conditions | 320 | Α |
| TJ | Junction Temperature | -55~150 | $^{\circ}$ |
| T _{stg} | Storage Temperature Range | -55~150 | ${\mathbb C}$ |
| dv/dt | Voltage Rate of Change (Rated V _R) | 10,000 | V/μs |







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THERMAL CHARACTERISTICS

| SYMBOL | PARAMETER | MAX | UNIT |
|---------------------|-------------------------------------|-----|------|
| R _{th j-c} | Thermal Resistance,Junction to Case | 2.0 | °C/W |

ELECTRICAL CHARACTERISTICS (Pulse Test: Pulse Width=300 µ s,Duty Cycle≤1%)

| SYMBOL | PARAMETER | CONDITIONS | MAX | UNIT |
|----------------|---------------------------------------|--|------|------|
| VF | Maximum Instantaneous Forward Voltage | I _F = 15A ; Tc= 25 ℃ | 0.94 | V |
| | | I _F = 15A ; Tc= 125℃ | 0.78 | |
| VF | Maximum Instantaneous Forward Voltage | I _F = 30A ; Tc= 25 ℃ | 1.1 | V |
| | | I _F = 30A ; Tc= 125℃ | 0.95 | |
| I _R | Maximum Instantaneous Reverse Current | V _R = V _{RWM} ;Tc= 25°C | 0.25 | mA |
| | | V _R = V _{RWM} ;Tc= 125°C | 2.5 | |



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