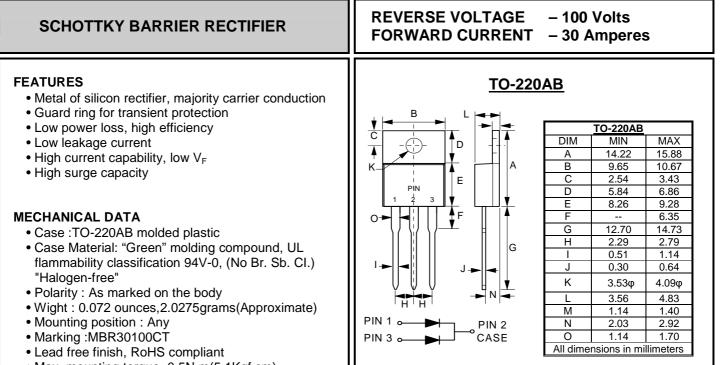


MBR30100CT

REV. 4, Jun.-2015, KTHC20



Max. mounting torque=0.5N.m(5.1Kgf.cm)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwis e specified.

ABSOLUTE RATINGS

| ADSOLUTE KATINGS | | | | | |
|--|----------------------|-------------------|---|--------------|----------|
| PARAMETER | | | SYMBOL | VALUE | UNIT |
| Maximum repetitive peak reverse voltage | | | V _{RRM} | 100 | V |
| Maximum RMS Voltage | | | V _{RMS} | 70 | |
| Maximum DC blocking voltage | | | V _{DC} | 100 | V |
| Maximum Average rectified output current $@ T_c = 125^{\circ}C$ | | (AV) | 30 | A | |
| Peak forward surge current 8.3ms single half sine-wave superimposed on rated load. | | | I _{FSM} | 250 | А |
| Voltage Rate of Charge (Rated VR) | | | dV/dt | 10000 | V/uS |
| Operating and Storage temperature range | | | T _J ,T _{STG} | -65 to +175 | C |
| STATIC ELECTRICAL | CHARACTER | STICS | | | |
| PARAMETER | TES | TEST CONDITION | | MAX | UNIT |
| Forward voltage (Note1) | I _F =15A | Tյ=25℃ Tյ=125℃ | - V _F | 0.80 0.67 | V |
| | I _F =30A | T」=25℃ T」=125℃ | | 0.93 0.80 | v |
| Leakage current | V _R =100V | T」=25℃ T」=125℃ | I _R | 100 5 | uA mA |
| Typical junction capacitance (Note2) | | | Cj | 300 | pF |
| THERMAL CHARACTE | RISTICS | | · · · · · · · · · · · · · · · · · · · | | |
| PARAMETER | | | SYMBOL | ТҮР | UNIT |
| Typical thermal resistance (Note3,4) | | | RthJ _C RthJ₃ RthJ _L | 2 7 1 | £W |

Note :

(1) 300us pulse width, 2% duty cycle.

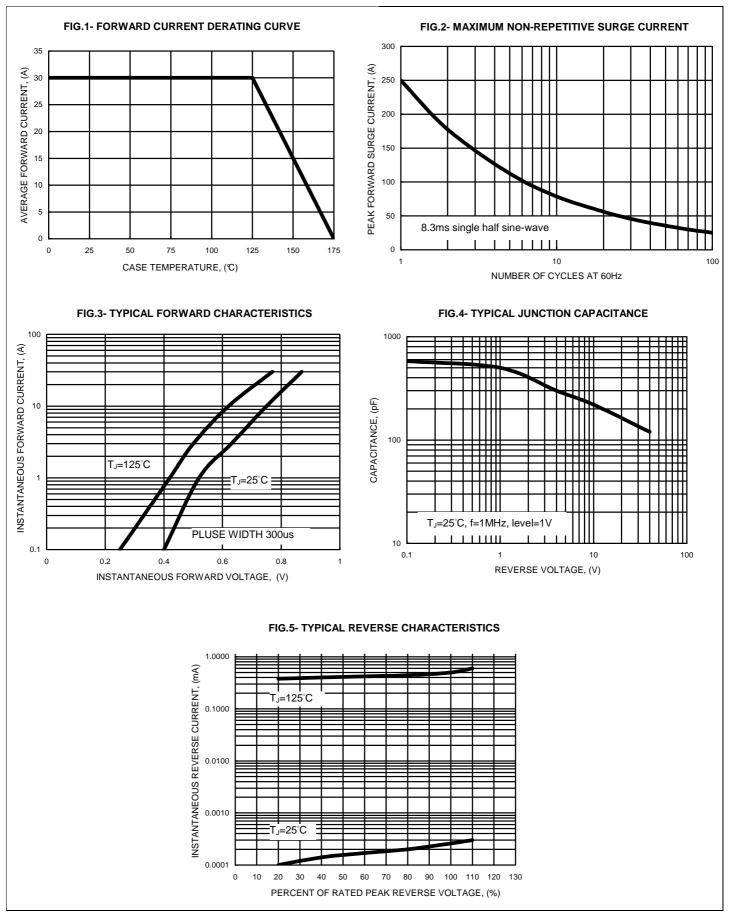
(2) Measured at 1.0MHz and applied reverse voltage of 4.0 VDC

(3) Thermal Resistance Junction to Case.

(4) The unit mounted on copper plate (75x75x15) mm heatsink

RATING AND CHARACTERISTIC CURVES MBR30100CT

LITEON



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