

MURB1010CT~MURB1060CT

ULTRAFAST RECOVERY RECTIFIERS

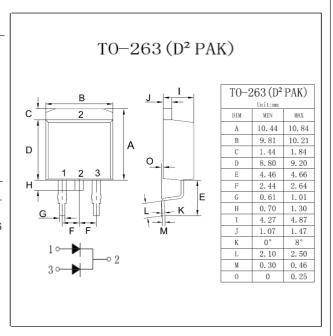
| VOLTAGE | 100 to 600 Volts |
|---------|------------------|
| CURRENT | 10 Amperes |

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0.
 Flame Retardant Epoxy Molding Compound.
- Low power loss, high efficiency.
- Low foward voltage, high current capability.
- High surge capability
- Ultra fast recovery time, high voltage.
- · Lead free in comply with EU RoHS.

MECHANICAL DATA

- Case: TO-263AB molded plastic
- Terminals: solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: As marked.Mounting Position: Any



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%

| PARAMETER | SYMBOL | MURB 1010CT | MURB 1020CT | MURB 1030CT | MURB 1040CT | MURB 1050CT | MURB 1060CT | UNITS |
|--|----------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|-------|
| Maximum Recurrent Peak Reverse Voltage | V _{RRM} | 100 | 200 | 300 | 400 | 500 | 600 | V |
| Maximum RMS Voltage | V _{RMS} | 70 | 140 | 210 | 280 | 350 | 420 | ٧ |
| Maximum DC Blocking Voltage | V _{DC} | 100 | 200 | 300 | 400 | 500 | 600 | ٧ |
| Maximum Average Forward Current at T _c = 100°C | I _{F(AV)} | 10 | | | | | | А |
| Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load (JEDEC method) | I _{FSM} | 90 | | | | | | А |
| Maximum Forward Voltage at 5A | V _F | 1 1.3 | | | 1.7 | | V | |
| Maximum DC Reverse Current at Rated DC Blocking T_J =25°C Voltage T_J =125°C | I _R | 10 500 | | | | | | μА |
| Typical Junction Capacitance (Note 1) | C J | 170 130 | | | | pF | | |
| Maximum Reverse Recovery Time (Note 2) | t _{rr} | 35 | | | | | | ns |
| Typical Thermal Resistance (Note 3) | R _{eJC} | 3.5 | | | | | °C / W | |
| Operating Junction and Storage Temperature Range | T _J ,T _{STG} | -55 to +150 | | | | | | °C |

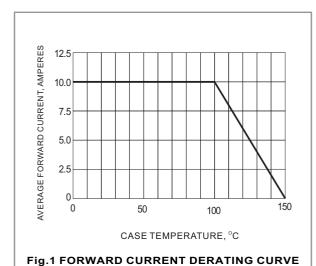
NOTES:

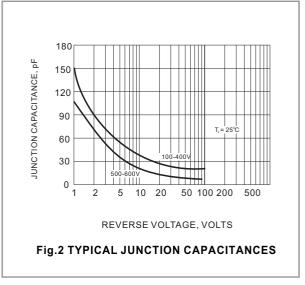
- 1. Measured at 1 MHz and applied reverse voltage of 4.0 VDC.
- 2. Reverse Recovery Test Conditions: I_F =0.5A, I_R =1A, I_R =1A, I_R =0.25A.
- 3. Thermal resistance from Junction to case.

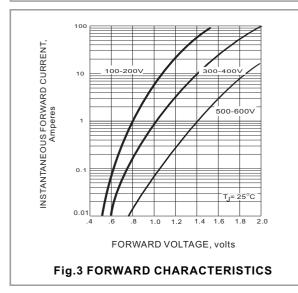


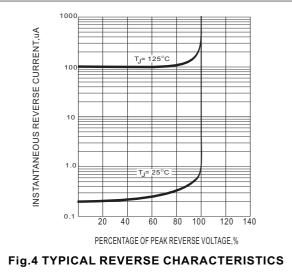
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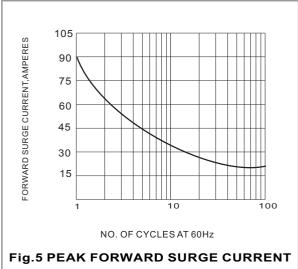
RATING AND CHARACTERISTIC CURVES













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