Pb Free Plating Product

U10A2CIS/U10A4CIS/U10A6CIS





10 Ampere Insulated Series Connection Fast Recovery Half Bridge Rectifiers

Features

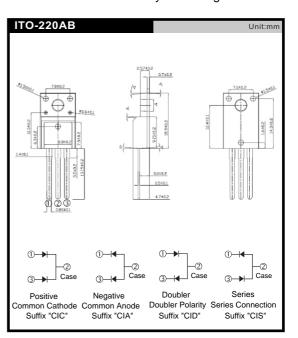
- ★ Latest GPP technology with super fast recovery time
- ★ Low forward voltage drop
- High current capability
- ★ Low reverse leakage current
- * High surge current capability

Application

- ★ Automotive Inverters and Solar Inverters
- ★ Plating Power Supply,SMPS,EPS and UPS
- ★ Car Audio Amplifiers and Sound Device Systems

Mechanical Data

- ★ Case: Fully Isolated Molding TO-220FP
- **★** Epoxy: UL 94V-0 rate flame retardant
- Terminals: Solderable per MIL-STD-202 method 208
- Polarity: As marked on diode body
- **★** Mounting position: Any
- ★ Weight: 2.0 gram approximately



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

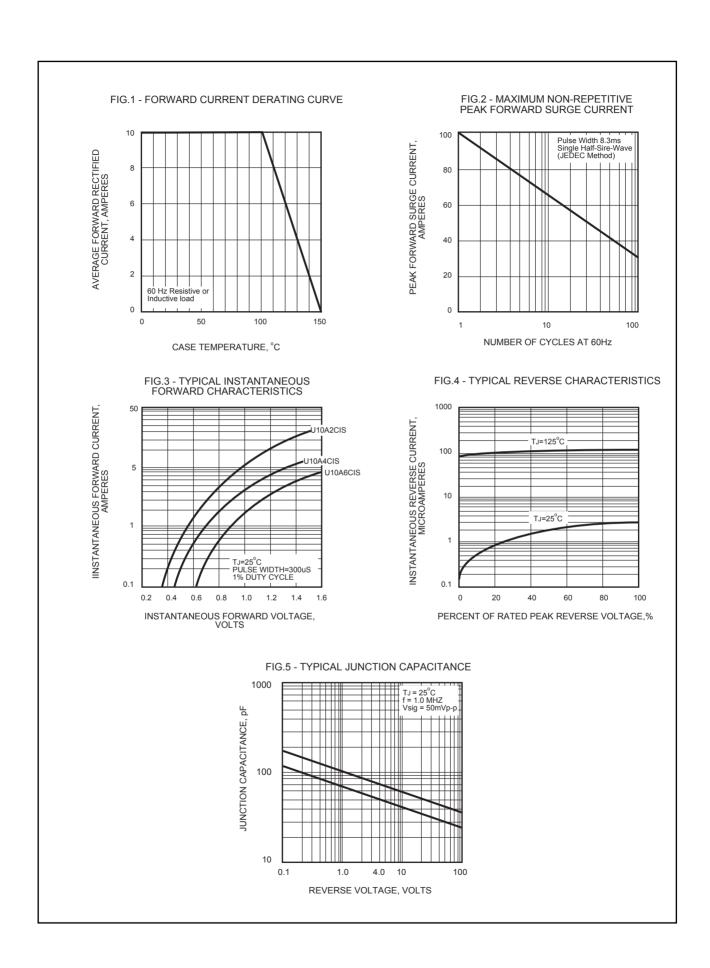
| | SYMBOL | U10A2CIS | U10A4CIS | U10A6CIS | UNIT |
|---|----------|-------------|----------|----------|----------|
| Maximum Recurrent Peak Reverse Voltage | VRRM | 200 | 400 | 600 | V |
| Maximum RMS Voltage | VRMS | 140 | 280 | 420 | V |
| Maximum DC Blocking Voltage | VDC | 200 | 400 | 600 | V |
| Maximum Average Forward Rectified Current Tc=100°C | IF(AV) | 10.0 | | | А |
| Peak Forward Surge Current, 8.3ms single Half sine-wave superimposed on rated load (JEDEC method) | IFSM | 100 | | | А |
| Maximum Instantaneous Forward Voltage @ 5.0 A | VF | 0.98 | 1.3 | 1.7 | V |
| Maximum DC Reverse Current @TJ=25°C At Rated DC Blocking Voltage @TJ=125°C | lR | 5.0 100 | | | uA uA |
| Maximum Reverse Recovery Time (Note 1) | Trr | 35 | | | nS |
| Typical junction Capacitance (Note 2) | CJ | 65 | | | pF |
| Typical Thermal Resistance (Note 3) | Rac | 2.2 | | | °C/W |
| Operating Junction and Storage Temperature Range | TJ, TSTG | -55 to +150 | | | °C |

NOTES : (1) Reverse recovery test conditions IF = 0.5A, IR = 1.0A, Irr = 0.25A.

(2) Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts DC.

(3) Thermal Resistance junction to case.

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