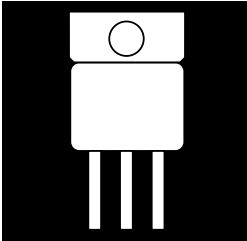


COM4213C
COM4219C

COM4220C

(COTS) COMMERCIAL OFF-THE-SHELF SCHOTTKY CENTER-TAP RECTIFIER IN A T0-258 PACKAGE



40 Amp, 45 To 100 Volt Schottky Rectifier

FEATURES

- Very Low Forward Voltage
- Fast Switching Speed
- Hermetic Metal Package, T0-258 Outline
- Standard Off-The-Shelf
- Isolated Package
- Available Screened To MIL-S-19500, TX, TXV And S Levels

DESCRIPTION

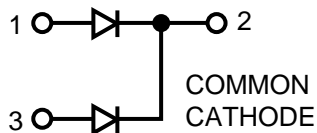
This product is specifically designed for use at power switching frequencies in excess of 100 kHz. The product combines two Schottky-barrier diodes in a center-tap configuration in a single package, simplifying installation, reducing heat sink hardware, and the need to obtain matched components. The device is ideally suited for Hi-Rel applications where small size and hermetically sealed package is required.

ABSOLUTE MAXIMUM RATINGS ($T_C = 25^\circ C$) Per Diode

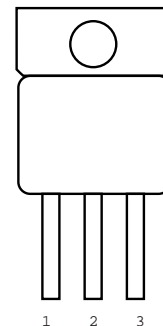
| | |
|--|---------------------|
| Peak Inverse Voltage | 45, 60, 100 V |
| Maximum Average DC Output Current, Per Leg | 20 A |
| Non-Repetitive Peak Surge Current (8.3 ms) | 400 A |
| Peak Reverse Transient Current | 2 A |
| Storage Temperature Range | - 55° C to + 175° C |
| Junction Operating Temperature Range | - 55° C to + 150° C |
| Package Thermal Resistance, Junction-to-Case | 1.7° C/W |

32

SCHEMATIC



PIN CONNECTION



Common cathode is standard.
Glass Feedthroughs are standard.

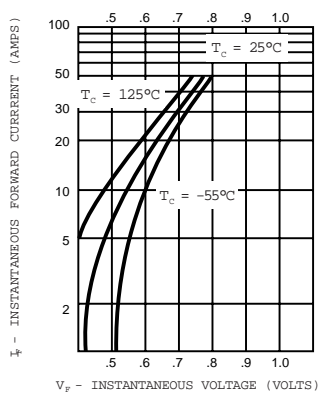
COM4213C, COM4219C, COM4220C

ELECTRICAL CHARACTERISTICS (Per Diode)

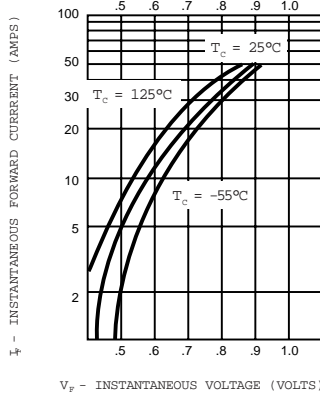
| Part No. | PIV | Maximum Forward Voltage @ $I_F = 20A^{(1)}$ | | Maximum Reverse Current | |
|----------|-----|---|---------------------|-------------------------|---------------------|
| | | $T_C = 25^\circ C$ | $T_C = 125^\circ C$ | $T_C = 25^\circ C$ | $T_C = 125^\circ C$ |
| COM4213C | 45 | .72 V | .64 V | 2 mA | 40 mA |
| COM4219C | 60 | .85 V | .75 V | | |
| COM4220C | 100 | .90 V | .82 V | | |

(1) Pulse Test: Pulse Width 300µs, Duty Cycle 2.0%.

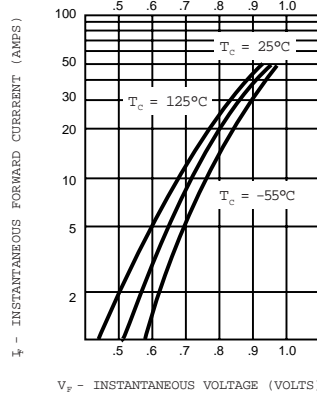
TYPICAL FORWARD VOLTAGE
COM4213C



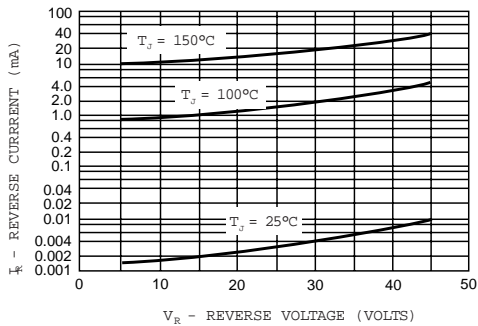
TYPICAL FORWARD VOLTAGE
COM4219C



TYPICAL FORWARD VOLTAGE
COM4220C



TYPICAL REVERSE CURRENT
COM4213C



MECHANICAL OUTLINE
TO-258

