



GS1010FL

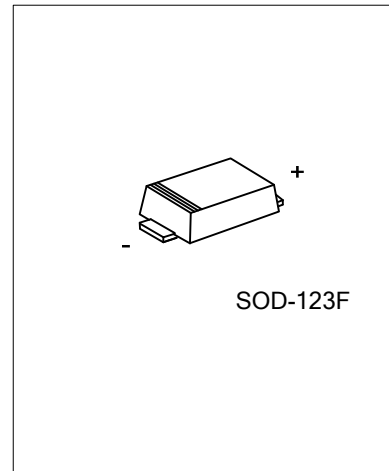
DIODE

SURFACE MOUNT GENERAL RECTIFIER

DESCRIPTION

The UTC **GS1010FL** is a surface mount general rectifier, it uses UTC's advanced technology to provide the customers with low profile package and low leakage current, etc.

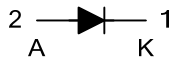
The UTC **GS1010FL** is suitable for ESD protection and surface mounted applications, etc.



FEATURES

- * Low profile package
- * ESD protection
- * Low leakage current

SYMBOL



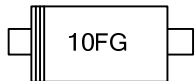
ORDERING INFORMATION

| Ordering Number | Package | Pin Assignment | | Packing |
|------------------|----------|----------------|---|-----------|
| | | 1 | 2 | |
| GS1010FLG-CA2F-R | SOD-123F | K | A | Tape Reel |

Note: Pin Assignment: A: Anode K: Cathode

| | |
|--|--|
| <p>GS1010FLG-CA2F-R</p> <p>(1) Packing Type</p> <p>(2) Package Type</p> <p>(3) Green Package</p> | <p>(1) R: Tape Reel</p> <p>(2) CA2F: SOD-123F</p> <p>(3) G: Halogen Free and Lead Free</p> |
|--|--|

MARKING



■ ABSOLUTE MAXIMUM RATINGS (T_A=25°C, unless otherwise specified)

| PARAMETER | SYMBOL | RATINGS | UNIT |
|--|------------------|----------|------|
| Repetitive Peak Reverse Voltage | V _{RRM} | 1000 | V |
| Maximum RMS Voltage | V _{RMS} | 700 | V |
| Maximum DC Blocking Voltage | V _{DC} | 1000 | V |
| Rectified Current (Average) Half Wave Rectification with Resist. Load at T _A =25°C (Note 1) | I _O | 1.0 | A |
| Surge Forward Current at t<1s, T _J =25°C | I _{FSM} | 30 | A |
| Junction Temperature | T _J | -55~+150 | °C |
| Storage Temperature | T _{STG} | -55~+150 | °C |

Notes: 1. Absolute maximum ratings are those values beyond which the device could be permanently damaged. Absolute maximum ratings are stress ratings only and functional device operation is not implied.
 2. Measured at 1MHz and applied reverse voltage of 0V D.C.

■ THERMAL DATA

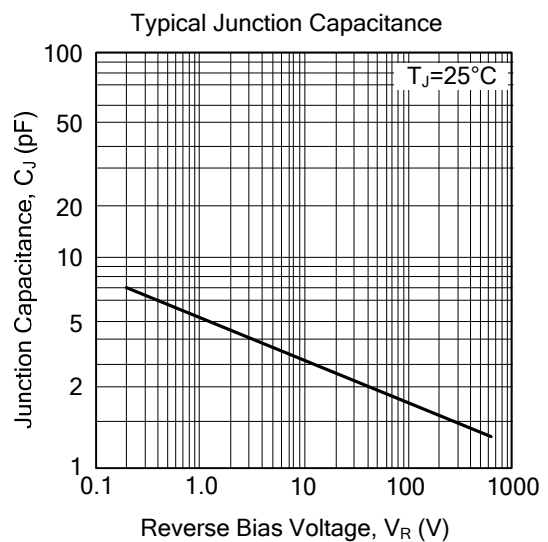
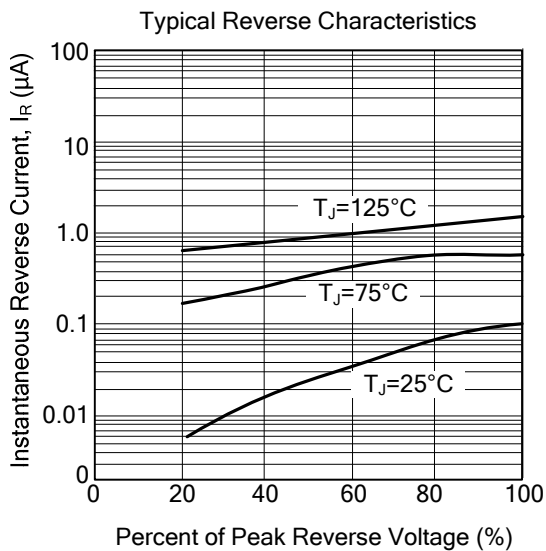
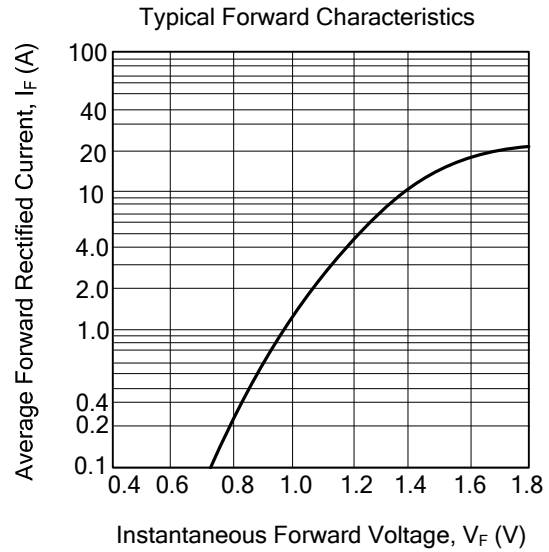
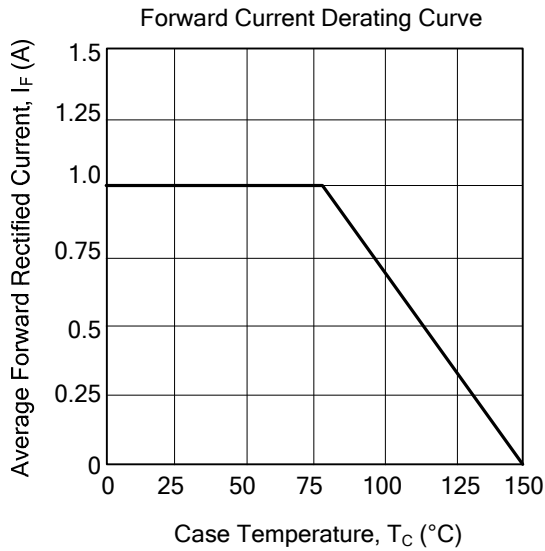
| PARAMETER | SYMBOL | RATINGS | UNIT |
|---------------------|-----------------|---------|------|
| Junction to Ambient | θ _{JA} | 200 | °C/W |

■ ELECTRICAL CHARACTERISTICS (T_A=25°C, unless otherwise specified)

| PARAMETER | SYMBOL | TEST CONDITIONS | MIN | TYP | MAX | UNIT |
|-----------------------------|----------------|--|-----|-----|-----|------|
| Forward Voltage | V _F | I _F =1.0A | | | 1.1 | V |
| Leakage Current | I _R | V _R =1000V, T _J =25°C | | | 10 | μA |
| | | V _R =1000V, T _J =100°C | | | 50 | μA |
| Junction Capacitance (Note) | C _J | | | | 4.0 | pF |

Note: Measured at 1MHz and applied reverse voltage of 4.0V D.C.

TYPICAL CHARACTERISTICS



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