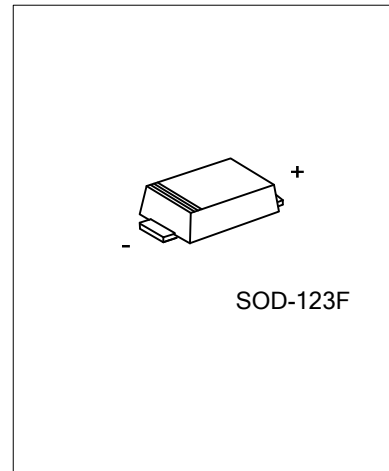




**SURFACE MOUNT GENERAL RECTIFIER**



■ DESCRIPTION

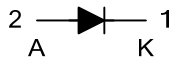
The UTC **GS1010FL** is a surface mount general rectifier, it uses UTC's advanced technology to provide the customers with low profile package and low leakage current, etc.

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
Lead Free	Halogen Free		1	2	
GS1010FLK-CA2F-R	GS1010FLG-CA2F-R	SOD-123F	K	A	Tape Reel

Note: Pin Assignment: A: Anode, K: Cathode

<p>GS1010FLK-CA2F-R</p> <p>(1)Packing Type</p> <p>(2)Package Type</p> <p>(3)Lead Free</p>	<p>(1) R: Tape Reel</p> <p>(2) CA2F: SOD-123F</p> <p>(3) K: Lead Free, G: Halogen Free</p>
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■ MARKING INFORMATION

PACKAGE	MARKING
SOD-123F	<p>K: Lead Free G: Halogen Free</p>

■ ABSOLUTE MAXIMUM RATINGS ( $T_A=25^{\circ}\text{C}$ , 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 $T_A=25^{\circ}\text{C}$ (Note 1)	$I_O$	1.0	A
Surge Forward Current at $t<1\text{s}$ , $T_J=25^{\circ}\text{C}$	$I_{FSM}$	30	A
Junction Temperature	$T_J$	-55~+150	$^{\circ}\text{C}$
Storage Temperature	$T_{STG}$	-55~+150	$^{\circ}\text{C}$

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	$\theta_{JA}$	200	$^{\circ}\text{C/W}$

■ ELECTRICAL CHARACTERISTICS ( $T_A=25^{\circ}\text{C}$ , unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Forward Voltage	$V_F$	$I_F=1.0\text{A}$			1.1	V
Leakage Current	$I_R$	$V_R=1000\text{V}$ , $T_J=25^{\circ}\text{C}$			10	$\mu\text{A}$
		$V_R=1000\text{V}$ , $T_J=100^{\circ}\text{C}$			50	$\mu\text{A}$
Junction Capacitance (Note)	$C_J$				4.0	pF

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

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