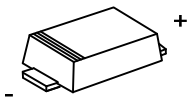
GS1010FL

DIODE

SURFACE MOUNT GENERAL RECTIFIER



SOD-123F

■ DESCRIPTION

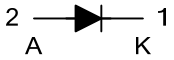
The UTC **GS1010FL** is a surface mount general rectifier, it uses UTC's advanced technology to provide the customers with low profile package and low leakage current, etc.

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

■ FEATURES

* Low profile package
* ESD protection
* Low leakage current

■ SYMBOL



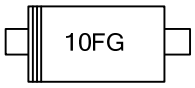
■ ORDERING INFORMATION

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

Note: Pin Assignment: A: Anode K: Cathode

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

■ MARKING



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■ 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

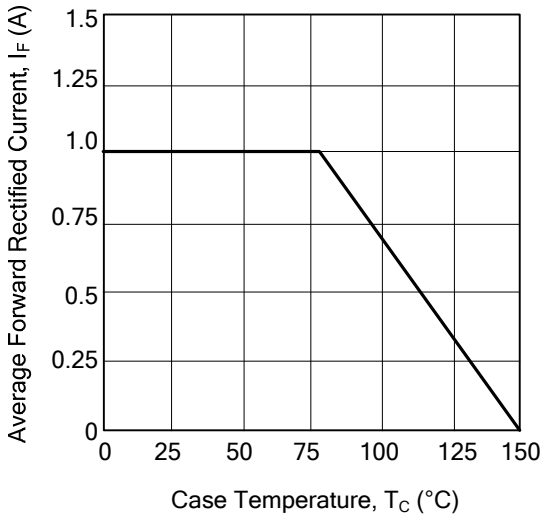
■ ELECTRICAL CHARACTERISTICS (T_A=25°C, unless otherwise specified)

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

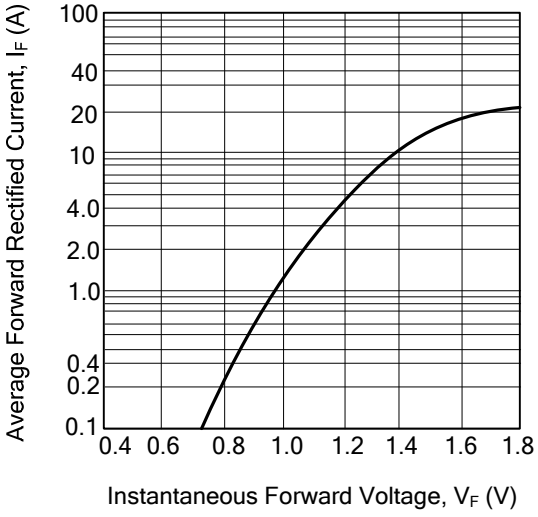
Note: Measured at 1MHz and applied reverse voltage of 4.0V D.C.

■ TYPICAL CHARACTERISTICS

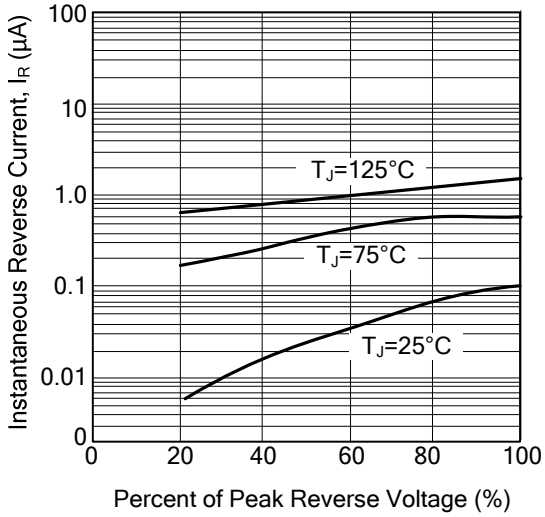
Forward Current Derating Curve



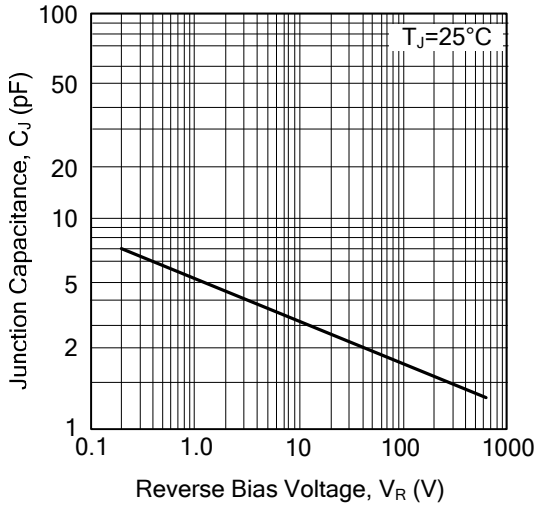
Typical Forward Characteristics



Typical Reverse Characteristics



Typical Junction Capacitance



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