

UTC UNISONIC TECHNOLOGIES CO., LTD

RS1010FL

SURFACE MOUNT FAST DIODE

DESCRIPTION

The UTC RS1010FL is a surface mount fast diode, it uses UTC's advanced technology to provide customers with fast switching and low reverse leakage, etc.

The UTC RS1010FL is suitable for surface mounted applications.

FEATURES

* Fast switching

* Low profile package

* Low reverse leakage

SYMBOL

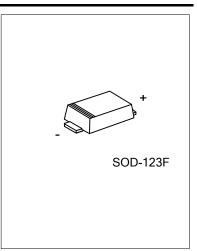
ORDERING INFORMATION

Ordering Number	Package	Pin Assignment		Decking	
		1	2	Packing	
RS1010FLG-CA2F-R	SOD-123F	К	А	Tape Reel	
Note: Pin Assignment: A: Anode K: Cathode					

RS1010FL <u>G</u> - <u>CA2F</u> - <u>R</u>	
(1)Packing Type	(1) R: Tape Reel
(2)Package Type	(2) CA2F: SOD-123F
(3)Green Package	(3) G: Halogen Free and Lead Free

MARKING





■ ABSOLUTE MAXIMUM RATINGS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

PARAMETER	SYMBOL	RATINGS	UNIT
Repetitive Peak Reverse Voltage	V _{RRM}	1000	V
RMS Voltage	V _{RMS}	700	V
DC Blocking Voltage	V _{DC}	1000	V
Average Forward Rectified Current Derate above T _C =110°C	I _{F(AV)}	1.0	А
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	I _{FSM} 30	
Junction Temperature	ТJ	-55~+150	°C
Storage Temperature	T _{STG}	-55~+150	°C

Note: 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.

THERMAL DATA

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

ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Instantaneous Forward Voltage	V _F	I _F =0.7A			1.15	V
		I _F =1.0A			1.3	V
DC Reverse Current at Rated DC Blocking	I	TJ=25°C			1.0	μA
Voltage	I _R	T _J =125°C			50	μA
Reverse Recovery Time	trr	I _F =0.5A, I _R =1A, I _{rr} =0.25A			500	nS
Junction Capacitance	CJ	V _R =4V, f=1MHz		9		рF



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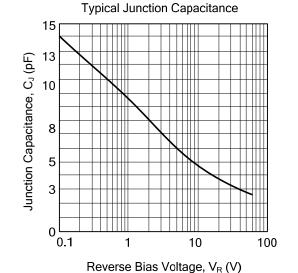
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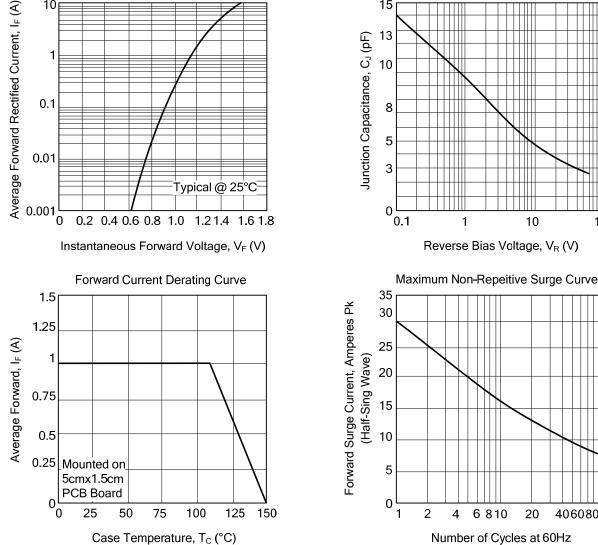
TYPICAL CHARACTERISTICS

Typical Forward Characteristics



20

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