UTC UNISONIC TECHNOLOGIES CO., LTD

RS1002FL Preliminary DIODE

SURFACE MOUNT FAST DIODE

DESCRIPTION

The UTC RS1002FL 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 RS1002FL is suitable for surface mounted applications.

FEATURES

- * Fast switching
- * Low profile package
- * Low reverse leakage

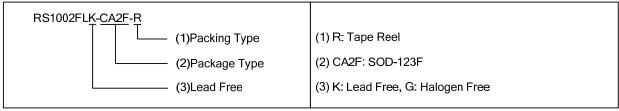
SYMBOL



ORDERING INFORMATION

Ordering Number		Doolsono	Pin Assignment		Doolsing	
Lead Free	Halogen Free	Package	1	2	Packing	
RS1002FLK-CA2F-R	RS1002FLG-CA2F-R	SOD-123F	K	Α	Tape Reel	

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



MARKING INFORMATION

PACKAGE	MARKING		
SOD-123F	R2F K: Lead Free G: Halogen Free		

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SOD-123F

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}	200	V
RMS Voltage		140	V
DC Blocking Voltage	V_{DC}	200	V
Average Forward Rectified Current Derate above T _C =110°C	Ιο	1.0	Α
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	30	Α
Junction Temperature	T_J	-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
Instantance Francisch Voltage	V _F	I _F =0.7A			1.15	V
Instantaneous Forward Voltage		I _F =1.0A			1.3	V
DC Reverse Current at Rated DC Blocking		T _J =25°C			1.0	μΑ
Voltage	IR	T _J =125°C			50	μΑ
Reverse Recovery Time	t _{rr}	I _F =0.5A, I _R =1A, I _{rr} =0.25A			150	nS
Junction Capacitance	CJ	V _R =4V, f=1MHz		9		pF

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