UTC UNISONIC TECHNOLOGIES CO., LTD

UESD12VL2U-A

Preliminary

TVS

ESD PROTECTION DEVICE

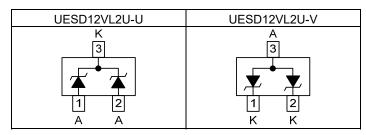
DESCRIPTION

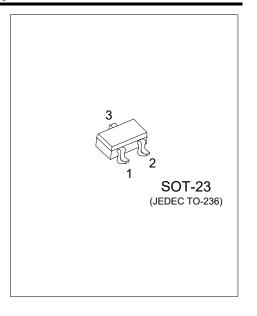
The UTC UESD12VL2U-A is ElectroStatic Discharge (ESD). protection diode in leadless ultra small Surface-Mounted Device (SMD) plastic package designed to protect one signal line from the damage caused by ESD and other transients.

FEATURES

- * Reverse stand-off voltage: V_{RWM} =12V
- * Surge robustness: IPPM=20A for 8/20µs pulse



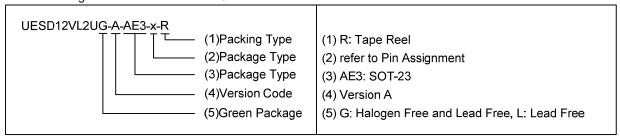




ORDERING INFORMATION

Ordering Number		Dookogo	Pin Assignment			Dooking	
Lead Free	Halogen Free	ree Package		2	3	Packing	
UESD12VL2UL-A-AE3-U-R	UESD12VL2UG-A-AE3-U-R	SOT-23	Α	Α	K	Tape Reel	
UESD12VL2UL-A-AE3-V-R	UESD12VL2UG-A-AE3-V-R	SOT-23	K	K	Α	Tape Reel	

Note: Pin Assignment: A: Anode K: Cathode



MARKING

UESD12VL2U-A-U	UESD12VL2U-A-V			
E CV2AU	E CV2AV			

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

PARAMETER		SYMBOL	RATINGS	UNIT	
ESD Discharge	HEC61000-4-2	Air Discharge	\/	±30	kV
		Contact Discharge	V _{ESD}	±30	kV
Peak Pulse Current	IFC61000 4 F	t _p =8/20μs	I _{PP}	10	Α
Peak Pulse Power	IEC61000-4-5		P_PK	300	W
Operating Junction Temperature		T_J	-55 ~ +150	°C	
Operating Temperature		T_OPR	-55 ~ +125	°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.

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

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Reverse Stand-Off Voltage	V _{RWM}				12.2	V
Reverse Breakdown Voltage	V_{BR}	I _R =1mA	14			>
Forward Voltage Drop	V _F	I _F =100mA			1.3	>
Reverse Current	I _R	V _R =12V			1	uA
Diode capacitance	Cd	V _R =0V, f=1MHz		71	120	рF
Clamping Voltage (positive transient)	Vcl	I _{PP} =1.9A, t _P =8/20μs (Note)			21.2	>
		I _{PPM} =5A, t _P =8/20μs (Note)			22	V

Note: Device stressed with 8/20 μs exponential decay waveform according to IEC 61000-4-5.

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