

**USD03W THRU USD36W**

Preliminary

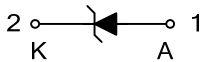
TVS DIODE FOR ESD PROTECTION**SINGLE LINE TVS DIODE FOR
ESD PROTECTION
ELECTRONICS PRODUCTS****DESCRIPTION**

The UTC **USD03W THRU USD36W** is single line tvs diode, it uses UTC's advanced technology to provide customers with low leakage current, low operating and clamping voltage, etc.

The UTC **USD03W THRU USD36W** is suitable for ESD Protection.

FEATURES

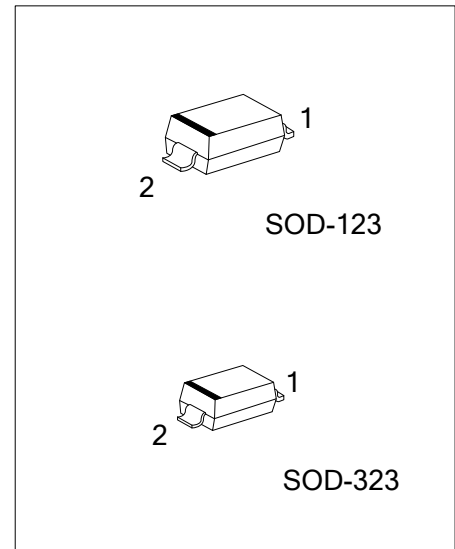
- * 320 Watts peak pules power($t_p=8/20\mu s$)
- * Low clamping voltage and leakage current
- * Use in portable electronics

SYMBOL**ORDERING INFORMATION**

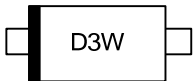
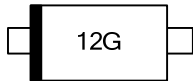
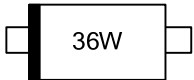
Ordering Number		Package	Pin Assignment		Packing
Lead Free	Halogen Free		1	2	
USD03WL-CA2-R	USD03WG-CA2-R	SOD-123	A	K	Tape Reel
USD05WL-CA2-R	USD05WG-CA2-R	SOD-123	A	K	Tape Reel
USD08WL-CA2-R	USD08WG-CA2-R	SOD-123	A	K	Tape Reel
USD12WL-CA2-R	USD12WG-CA2-R	SOD-123	A	K	Tape Reel
USD15WL-CA2-R	USD15WG-CA2-R	SOD-123	A	K	Tape Reel
USD24WL-CA2-R	USD24WG-CA2-R	SOD-123	A	K	Tape Reel
USD36WL-CA2-R	USD36WG-CA2-R	SOD-123	A	K	Tape Reel
USD03WL-CB2-R	USD03WG-CB2-R	SOD-323	A	K	Tape Reel
USD05WL-CB2-R	USD05WG-CB2-R	SOD-323	A	K	Tape Reel
USD08WL-CB2-R	USD08WG-CB2-R	SOD-323	A	K	Tape Reel
USD12WL-CB2-R	USD12WG-CB2-R	SOD-323	A	K	Tape Reel
USD15WL-CB2-R	USD15WG-CB2-R	SOD-323	A	K	Tape Reel
USD24WL-CB2-R	USD24WG-CB2-R	SOD-323	A	K	Tape Reel
USD36WL-CB2-R	USD36WG-CB2-R	SOD-323	A	K	Tape Reel

Note: Pin Assignment: K: Cathode A: Anode

USD03WG-CA2-R (1) Packing Type (2) Package Type (3) Green Package	(1) R: Tape Reel (2) CA2: SOD-123, CB2: SOD-323 (3) G: Halogen Free and Lead Free, L: Lead Free
---	--



■ MARKING

Ordering Number	SOD-123	SOD-323
USD03W		
USD05W		
USD08W		
USD12W		
USD15W		
USD24W		
USD36W		

■ ABSOLUTE MAXIMUM RATINGS

PARAMETER	SYMBOL	RATINGS	UNIT
Peak Pulse Power ($t_p=8/20\mu s$)	P_{PK}	320	W
ESD Voltage	V_{ESD}	25	kV
Operating Junction Temperature	T_J	-55 ~ +150	°C
Operating 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

PART NUMBER	Reverse Stand-Off Voltage	Reverse Breakdown Voltage		Reverse Leakage Current		Clamping Voltage ($t_p=8/20\mu s$)		Off State Junction Capacitance			
	V_{RWM}	$V_{BR} @ I_T$		$I_R @ V_R$		$V_C @ I_{PP}$		$C_J @ f$			
								0Vdc Bias		5Vdc Bias	
	Max. V	Min. V	I_T mA	Max. μA	V_R V	Max. V	I_{PP} A	Typ. pF	f MHz	Typ. pF	f MHz
USD03W	3.3	4.0	1	125	3.3	6.5	1	450	1	150	1
USD05W	5.0	6.0	1	10	5	9.8	1	300	1	100	1
USD08W	8.0	8.5	1	10	8	13.4	1	150	1	80	1
USD12W	12	13.3	1	1	12	19	1	130	1	50	1
USD15W	15	16.7	1	1	15	24	1	120	1	30	1
USD24W	24	26.7	1	1	24	43	1	80	1	10	1
USD36W	36	40	1	1	36	60	1	30	1	1	1

UTC assumes no responsibility for equipment failures that result from using products at values that exceed, even momentarily, rated values (such as maximum ratings, operating condition ranges, or other parameters) listed in products specifications of any and all UTC products described or contained herein. UTC products are not designed for use in life support appliances, devices or systems where malfunction of these products can be reasonably expected to result in personal injury. Reproduction in whole or in part is prohibited without the prior written consent of the copyright owner. UTC reserves the right to make changes to information published in this document, including without limitation specifications and product descriptions, at any time and without notice. This document supersedes and replaces all information supplied prior to the publication hereof.