

UTC UNISONIC TECHNOLOGIES CO., LTD

SMDJXXX

SURFACE MOUNT TRANSIENT **VOLTAGE SUPPRESSORS**

DESCRIPTION

The UTC SMDJXXX is a surface mount transient voltage supperssors, it uses UTC's advanced technology to provide customers with low leakage and very fast response time, etc.

FEATURES

- * Excellent clamping capability
- * Low leakage
- * Very fast response time

SYMBOL



ORDERING INFORMATION

Ordering	Deelvere	Pin Assignment		Dealing	
Lead Free	Halogen Free	Раскаде	1	2	Packing
SMDJXXXL-SMC-R	SMDJXXXG-SMC-R	SMC	К	А	Tape Reel
Note: Pin Assignment: K: Cathod	e A: Anode				

SMDJXXXL-SMC-R (1)Packing Type (2)Package Type (3)Halogen Free (4)Category (5)Output Voltage Code	 (1) R: Tape Reel (2) SMC: SMC (3) L: Lead Free, G: Halogen Free (4) A: 5% uni-directional (5) xx: refer to ELECTRICAL CHARACTERISTICS

MARKING





■ ABSOLUTE MAXIMUM RATING (T_A=25°C unless otherwise noted)

PARAMETER	SYMBOL	RATINGS	UNIT
Peak Power Dissipation with a 10/1000µs Waveform (Note 2)	P _{PP}	3000	W
Peak Pulse Current with a 10/1000µs Waveform (Note 2)	I _{PP}	See ELECTRICAL CHARACTERISTICS Table	A
Power Dissipation On Infinite Heatsink at T _L = 75°C	PD	6.0	W
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Unidirectional Only (Note 3)	I _{FSM}	300	A
Maximum Instantaneous Forward Voltage at 50 A for Unidirectional Only (Note 4)	V_{F}	3.5/5.0	V
Operating Junction Temperature	TJ	-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. Non-repetitive current pulse and derated above $T_A=25^{\circ}C$
- 3. Measured on 8.3ms single half sine-wave or equivalent square wave, duty cycle=4 pulses per minute maximum.
- 4. V_F<3.5V for devices of V_{BR}<200V and V_F<5.0V for devices of V_{BR}>201V.

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

PART NUMBER (Uni)	BREAKDOWN VOLTAGE VBR @ IT		MAXIMUM REVERSE	WORKING PEAK	MAXIMUM REVERSE	MAXIMUM	
	MIN (V)	MAX (V)	I _T (mA)	LEAKAGE I _R @ V _{RWM} (µA)	REVERSE VOLTAGE V _{RWM} (V)	E CURRENT E I _{PP}	VOLTAGE V _C @ I _{PP} (V)
SMDJ24A	26.70	29.50	5	2	24.0	77.12	38.9
SMDJ28A	31.10	34.40	5	2	28.0	66.08	45
SMDJ33A	36.70	40.60	5	2	33.0	56.29	53.3

















Fig 4. Peak Pulse Power Rating Curve



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. The information presented in this document does not form part of any quotation or contract, is believed to be accurate and reliable and may be changed without notice.

