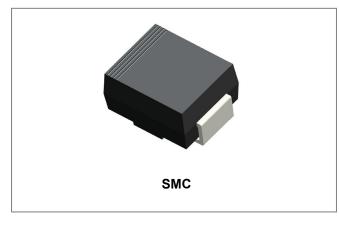


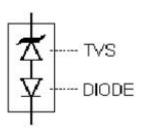
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SMCJLCE28A **1500 WATT LOW CAPACITANCE** SURFACE MOUNT TRANSIENT VOLTAGE SUPPRESSOR



Circuit Diagram



Features

- **Glass Passivated Die Construction**
- 1500W Peak Pulse Power Dissipation
- **Uni-Directional Versions Available**
- **Excellent Clamping Capability**
- Low capacitance of 100 pF or less
- IEC61000-4-2 ESD 15 kV (air), 8 kV (contact)
- Plastic Case Material has UL Flammability **Classification Rating 94V-O**
- This is a Pb Free Device
- Terminals finish: 100% Pure Tin
- All SMC Parts are Traceable to the Wafer Lot
- Additional testing can be offered upon request

Mechanical Data

- **Case: SMC Low Profile Molded Plastic**
- Terminals: Solder Plated , Solderable per MIL-STD 750, Method 2026
- Polarity: Color band denoted positive end
- Weight:0.21 grams(approx.)

Maximum Ratings and Thermal Characteristics@TA=25°C unless otherwise specified

Parameter	Symbol	Value	Units
Peak Pulse Power Dissipation on 10/1000 us waveform	P _{PPM}	1500	W
Steady State power dissipation@ T _L = 50°C	P _D	5	W
Typical Thermal Resistance Junction to Lead	$R_{\theta JL}$	20	°C/W
Operating Junction and Storage Temperature Range	T_{J}, T_{STG}	-65 to 150	°C

Ordering Information

Device	Package	Shipping	
SMCJLCE28A	SMC	3000pcs / reel	
SMCJLCE28ATR	SMC	3000pcs / reel	

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our tape and reel packaging specification.

Marking Diagram



Where XXXXX is YYWWL

SMCJLCE28A	= Marking code
YY	= Year
WW	= Week
L	= Lot Number

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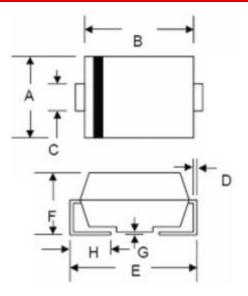
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Electrical Characteristics @T_A=25°C unless otherwise specified

UNI- DIRECTIONAL PART NO.	REVERSE STAND- OFF VOLTAGE VRWM (V)	BREAKDOWN VOLTAGE VBR (V) MIN. @I _T	BREAKDOWN VOLTAGE VBR (V) MAX. @It	TEST CURREN T I _T (MA)	MAXMUM CLAMPING VOLTAGE @IPP V _c (V)	PEAK PULSE CURRENT IPP(A)	REVERSE LEAKAGE @V _{RWM} I _R (uA)	MAXIMU M CAPACIT ANCE @ 0 Volts
SMCJLCE28A	28	31.10	34.4	1	45.5	33	5	100

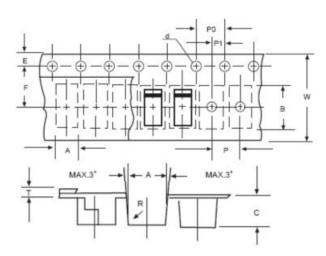
"A" Suffix Designates 5% Tolerance Devices

Mechanical Dimensions SMC



	SMC/DO-214AB			
Dim.	Min.	Max.	Min.	Max.
А	5.59	6.22	0.220	0.245
В	6.60	7.11	0.260	0.280
С	2.90	3.20	0.114	0.126
D	0.152	0.305	0.006	0.012
E	7.75	8.13	0.305	0.320
F	2.00	2.95	0.079	0.116
G	-	0.203	-	0.008
Н	0.76	1.52	0.030	0.060
	In Millimeters		In inches	

Carrier Tape Specification SMC



SYMBOL	Millimeters			
SYMBOL	Min.	Max.		
Α	5.90	6.10		
В	8.20	8.40		
С	2.40	2.60		
d	1.40	1.60		
E	1.40	1.60		
F	7.60	7.70		
Р	7.90	8.10		
P0	3.90	4.10		
P1	3.90	4.10		
Т	-	0.600		
W	15.80	16.20		

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Ratings and Characteristics Curves

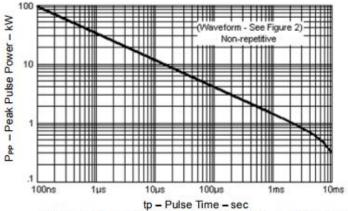
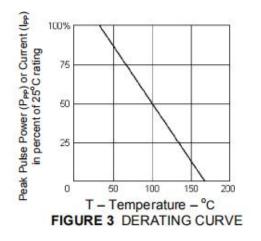
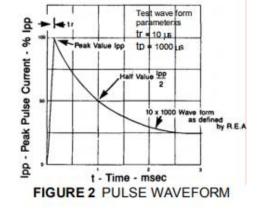


FIGURE 1 PEAK PULSE POWER vs. PULSE TIME





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