

TVS305-TVS430 TVS505-TVS528

TRANSIENT VOLTAGE SUPPRESSORS

FEATURES

- Available as "HR" (high reliability) screened per MIL-PRF-19500, JANTX level. Add "HR" suffix to base part number.
- Available as non-RoHS (Sn/Pb plating), standard, and as RoHS by adding "-PBF" suffix.

MAXIMUM RATINGS

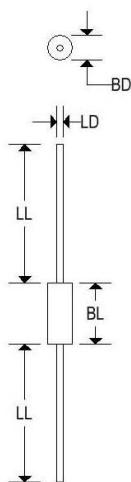
Ratings	TVS305-TVS430	TVS505-TVS528
Stand off voltage, V_R	5 to 300V	5 to 28V
Peak pulse power (1ms)	150W	500W
Forward surge current (8.3ms half-sine wave)	15A	50A
Power, continuous	3W	5W
Storage and operating temperature	-65 to +175°	

ELECTRICAL CHARACTERISTICS ($T_A = 25^\circ\text{C}$ unless otherwise specified)

Part number	Stand-off voltage V_R	Minimum breakdown voltage $V_{BR(\min)} @ 1\text{mA}$	Maximum leakage current $I_R @ V_R$	Maximum peak pulse current I_{PP}	Maximum clamping voltage $V_C @ I_{PP}$	Maximum clamping voltage $V_C @ 1\text{A}$	Maximum clamping voltage $V_C @$	
							5A	10A
	V	V	μA	A	V	V	V	
TVS305	5.0	6.0	50	17	8.7	-	-	-
TVS310	10.0	11.1	2	8.9	16.8	-	-	-
TVS312	12	13.8	1	7.1	21.0	-	-	-
TVS315	15	16.7	1	5.9	25	-	-	-
TVS318	18	20.4	1	4.9	31	-	-	-
TVS324	24	28.4	1	3.6	42	-	-	-
TVS328	28	30.7	1	3.2	46	-	-	-
TVS348	48	54	1	1.7	82	-	-	-
TVS360	60	67	1	1.4	105	-	-	-
TVS410	100	111	1	.91	160	-	-	-
TVS420	200	234	1	.42	360	-	-	-
TVS430	300	342	1	.28	520	-	-	-
TVS505	5.0	6.0	300	53.7	9.3	7.4	-	7.9
TVS510	10.0	11.1	5	30.3	16.5	13.2	-	14.4
TVS512	12.0	13.8	5	23.8	21.0	16.5	-	18.5
TVS515	15.0	16.7	5	19.8	25.2	19.7	-	22.2
TVS518	18.0	20.4	5	16.3	30.5	23.8	26.0	-
TVS524	24.0	28.4	5	11.9	42.0	32.4	37.0	-
TVS528	28.0	30.7	5	10.7	46.5	35.9	41.0	-

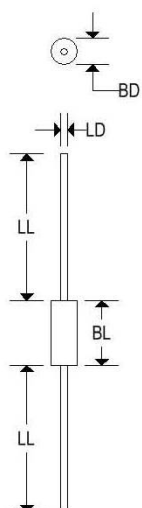
MECHANICAL CHARACTERISTICS

Case	Digi A (TVS305-TVS430)
Marking	Alpha-numeric
Polarity	Cathode band



	Digi A			
	Inches		Millimeters	
	Min	Max	Min	Max
BD	-	0.095	-	2.413
BL	-	0.180	-	4.572
LD	0.028	0.032	0.711	0.813
LL	0.700	-	17.800	-

Case	Digi B (TVS505-TVS528)
Marking	Alpha-numeric
Polarity	Cathode band



	Digi B			
	Inches		Millimeters	
	Min	Max	Min	Max
BD	-	0.142	-	3.607
BL	-	0.250	-	6.350
LD	0.038	0.042	0.965	1.067
LL	0.975	-	24.765	-

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