

Transient Voltage Suppressors

Vishay



TRANSZORB® Avalanche Transient Voltage Suppressors

DEVICE ⁽²⁾	PPPM ⁽¹⁾ (A)	PACKAGE		VDRM RANGE (V)	V _(BR) RANGE ⁽³⁾ (V)	V _(BR) TOLERANCE (Suffix)
		FAMILY	TYPE			
P4KE530 & P4KE550 ⁽⁶⁾	300	Plastic Axial	DO-41 (DO-204AL)	477 & 495	530 & 550 ^(m)	N/A
SMAJ530 & SMAJ550 ⁽⁶⁾		Surface Mount	DO-214AC (SMA)	477 & 495	530 & 550 ^(m)	N/A
BZW04-xx	400	Plastic Axial	DO-41 (DO-204AL)	5.8 - 376	6.45 - 418	7%(P)/5%(blank)
P4KEnn		Plastic Axial	DO-41 (DO-204AL)	5.5 - 376	6.8 - 440	5%(A)/10%(blank)
P4SMAnn		Surface Mount	SMA (DO-214AC)	5.8 - 185	6.8 - 220	5%(A)
SMAJxx		Surface Mount	SMA (DO-214AC)	5.0 - 188	6.4 - 209	5%(A)/10%(blank)
TGL41-nn ⁽⁶⁾		Surface Mount	MELF (DO-213AB)	5.5 - 171	6.8 - 200	5%(A)/10%(blank)
SAxx	500	Plastic Axial	DO-15 (DO-204AC)	5.0 - 170	6.4 - 189	5%(A)/10%(blank)
SACxx ⁽⁵⁾		Plastic Axial	DO-15 (DO-204AC)	5.0 - 50	7.6 - 55.5	N/A
P6KEnn	600	Plastic Axial	DO-15 (DO-204AC)	5.5 - 376	6.8 - 440	5%(A)/10%(blank)
P6SMBnn		Surface Mount	SMB (DO-214AA)	5.8 - 185	6.8 - 220	5%(A)
SM6Tnn		Surface Mount	SMB (DO-214AA)	5.8 - 188	6.8 - 220	5%(A)
SMBGxx		Surface Mount	SMB (DO-215AA)	5.0 - 188	6.4 - 209	5%(A)/10%(blank)
SMBJxx		Surface Mount	SMB (DO-214AA)	5.0 - 188	6.4 - 209	5%(A)/10%(blank)
1.5KEnn	1500	Plastic Axial	1.5KE	5.5 - 376	6.8 - 440	5%(A)/10%(blank)
1N6267 - 1N6303		Plastic Axial	1.5KE	5.5 - 171	6.8 - 200	5%(A)/10%(blank)
1.5SMCnn		Surface Mount	SMC (DO-214AB)	5.8 - 185	6.8 - 220	5%(A)
ICTE-xx		Plastic Axial	1.5KE	5.0 - 15	6.0 - 17.6	±1V
1N6373 - 1N6377 ⁽⁶⁾		Plastic Axial	1.5KE	5.0 - 15	6.0 - 17.6 ^(m)	±1V
1N6382 - 1N6385		Plastic Axial	1.5KE	5.0 - 15	9.4 - 17.6 ^(m)	±1V
LCExx ⁽⁵⁾		Plastic Axial	1.5KE	6.5 - 28.0	7.22 - 31.1	10% ⁽⁵⁾
SM15Tnn		Surface Mount	SMC (DO-214AB)	5.8 - 188	6.8 - 220	5%(A)
SMCGxx		Surface Mount	SMC (DO-215AB)	5.0 - 188	6.4 - 209	5%(A)/10%(blank)
SMCJxx		Surface Mount	SMC (DO-214AB)	5.0 - 188	6.4 - 209	5%(A)/10%(blank)
5KPxx	5000	Plastic Axial	P600	5.0 - 110	6.4 - 122	5%(A)/10%(blank)

Notes:

- (1) Tested with 10/1000µs pulse.
- (2) In part numbers, "xx" designates V_{wm} and "nn" designates nominal voltage.
- (3) Nominal voltages are specified for part numbers with "nn" and minimum voltages are specified for part numbers with "xx" or (m) footnote. Higher voltages are planned (up to 600V). Contact local sales office for availability.
- (4) Types are offered in bidirectional polarity by adding suffix "C" (BZW04 & BZW06 use suffix "B").
- (5) Low capacitance type (unidirectional only).
- (6) Unidirectional polarity only.



PAR[®] Automotive Transient Voltage Suppressors

DEVICE ⁽²⁾	PPPM ⁽¹⁾ (A)	PACKAGE		VDRM RANGE (V)	V(BR) RANGE ⁽³⁾ (V)	V(BR) TOLERANCE (Suffix)
		FAMILY	TYPE			
TPSMAnn	400	Surface Mount	SMA (DO-214AC)	5.5 - 36.8	6.8 - 43.0	5%(A)/10%(blank)
TMPG06-nn		Plastic Axial	MPG06	5.5 - 36.8	6.8 - 43.0	5%(A)/10%(blank)
P4KAnn		Plastic Axial	DO-41 (DO-204AL)	5.5 - 36.8	6.8 - 43.0	5%(A)/10%(blank)
TPSMBnn	600	Surface Mount	SMB (DO-214AA)	5.5 - 36.8	6.8 - 43.0	5%(A)/10%(blank)
P6KAnn		Plastic Axial	DO-15 (DO-204AC)	5.5 - 36.8	6.8 - 43.0	5%(A)/10%(blank)
TPSMCnn	1500	Surface Mount	SMC (DO-214AB)	5.5 - 36.8	6.8 - 43.0	5%(A)/10%(blank)
1.5KAnn		Plastic Axial	1.5KA	5.5 - 36.8	6.8 - 43.0	5%(A)/10%(blank)
SM5A27	3600 ⁽⁴⁾	Surface Mount	DO-218AB	22	27	±3V
SM5Sxx		Surface Mount	DO-218AB	9.0 - 36	10 - 40	5%(A)/10%(blank)
SM6A27	4600	Surface Mount	DO-218AB	22	27	±3V
SM6Sxx		Surface Mount	DO-218AB	9.0 - 36	10 - 40	5%(A)/10%(blank)
6KA24	6000	Plastic Axial	P600	24	29.7	10%
SM8A27	6600 ⁽⁴⁾	Surface Mount	DO-218AB	22	27	±3V
SM8Sxx		Surface Mount	DO-218AB	9.0 - 36	10 - 40	5%(A)/10%(blank)

Notes:

- (1) Tested with 10/1000µs pulse.
- (2) In part numbers, "xx" designates VWM and "nn" designates nominal voltage.
- (3) Nominal voltages are specified for part numbers with "nn" and minimum voltages are specified for part numbers with "xx"
- (4) For 10µs/10ms load-dump pulse rating, see datasheet.
- (5) All automotive TVS are unidirectional polarity only.
- (6) All automotive TVS use the patented PAR[®] process for superior high-temperature performance.

Power Voltage Regulating Diodes

DEVICE	P _{max} (W)	PACKAGE	Zener Voltage RANGE V _z (V)	Zener Voltage Tolerances (Suffix)	
				10%	5%
ZGL41-xxxy	1.0	MELF Plastic	100 - 200	std.	A
SMZG3788 - SMZG3809	1.5	SMBG (DO-215AA)	9.1 - 68	A*	B
SMZJ3788 - SMZJ3809		SMBJ (DO-214AA)	9.1 - 68	A*	B
Z4KExxxy		DO-41 Plastic	100 - 200	std.	A

Notes:

- (1) In part numbers, "xx" designates nominal V_z and "y" designates the Zener Voltage tolerance suffix.
- (2) For cases where there is no suffix for the Zener voltage tolerance:
 - std. = Standard tolerance
 - * = 20% tolerance standard (no suffix)