

TPK15KPXX TVS Rectifier

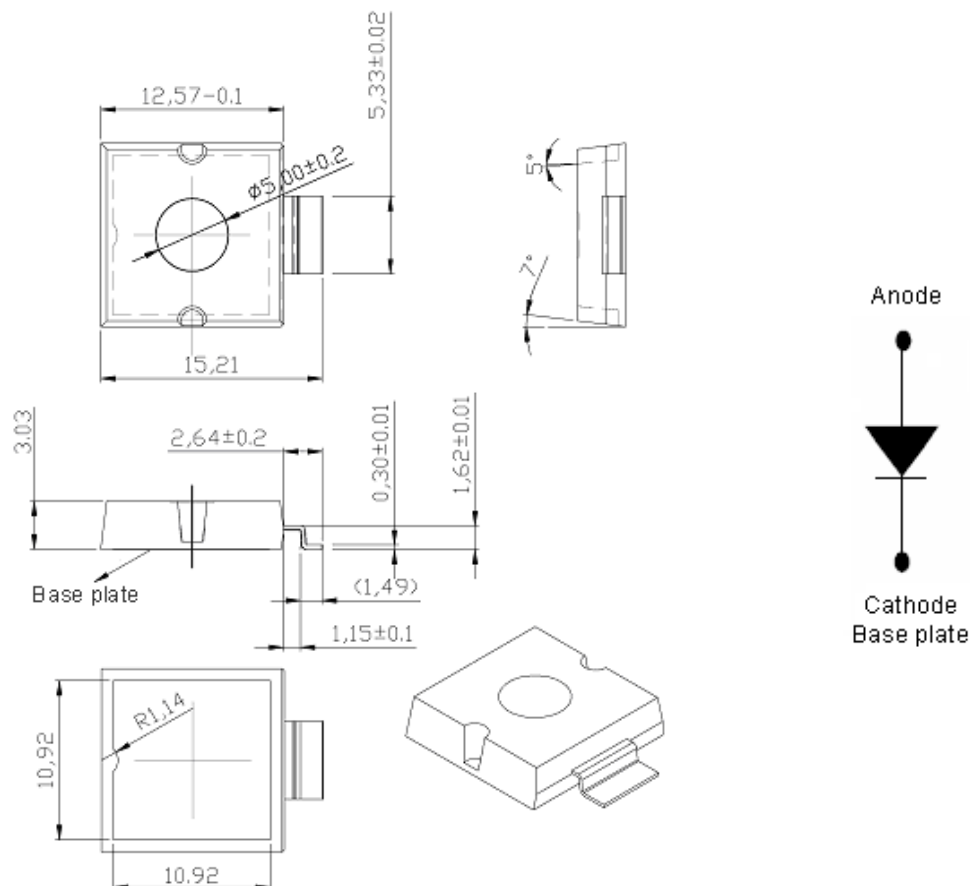
Applications:

- Protection from switching transients and induced RF

Features:

- Low profile surface mount
- Unidirectional and Bidirectional
- Fast response
- Suppresses transients up to 15kW @ 10/1000µs
- Marking : body marked with TPK15KPXXX
- This is a Pb – Free Device
- Open top for heat dissipation and different connection options
- All SMC parts are traceable to the wafer lot
- All part are 100% tested: electrical, 1x surge test, visual inspection
- Additional testing can be offered upon request

Mechanical Dimensions: In mm



SPD-4

- China - Germany - Korea - Singapore - United States ●
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Technical Data
Green Products
Data Sheet N0174, Rev. B
ELECTRICAL CHARACTERISTICS @ 25 °C

Part Number (Unidirectional)	Part Number (Bidirectional)	Stand-off Voltage V_{wm} (Note 1) (V)	Breakdown Voltage V_{BR} @ I_{BR} (mA) (V)		Test Current I_{BR} (mA)	Clamping Voltage V_c (10*1000) @ I_{PP} (V) Max	Stand By Current I_D @ V_{wm} (μ A) Max	Peak Pulse Current I_{pp} Max	Temperatur e Coefficient Of V_{BR} mV/°C Max
			Min	Max					
TPK15KP7.0A	TPK15KP7.0CA	7	7.78	8.60	150	12	3000	1251	5.0
TPK15KP7.5A	TPK15KP7.5CA	7.5	8.33	9.21	5	12.9	750	1164	6.0
TPK15KP8.0A	TPK15KP8.0CA	8	8.89	9.83	5	13.6	450	1101	6.0
TPK15KP8.5A	TPK15KP8.5CA	8.5	9.44	10.4	5	14.4	150	1141	7.0
TPK15KP9.0A	TPK15KP9.0CA	9	10	11.1	5	15.4	60	975	8.0
TPK15KP10A	TPK15KP10CA	10	11.1	12.3	5	17	45	882	9.0
TPK15KP11A	TPK15KP11CA	11	12.2	13.5	5	18.2	10	822	10
TPK15KP12A	TPK15KP12CA	12	13.3	14.7	5	19.9	10	753	11
TPK15KP13A	TPK15KP13CA	13	14.4	15.9	5	21.5	10	696	12
TPK15KP14A	TPK15KP14CA	14	15.6	17.2	5	23.2	10	645	13
TPK15KP15A	TPK15KP15CA	15	16.7	18.5	5	24.4	10	618	15
TPK15KP16A	TPK15KP16CA	16	17.8	19.7	5	26	10	576	16
TPK15KP17A	TPK15KP17CA	17	18.9	20.9	5	27.6	10	543	18
TPK15KP18A	TPK15KP18CA	18	20	22.1	5	29.2	10	516	19
TPK15KP20A	TPK15KP20CA	20	22.2	24.5	5	32.4	10	462	22
TPK15KP22A	TPK15KP22CA	22	24.4	26.9	5	35.5	10	423	24
TPK15KP24A	TPK15KP24CA	24	26.7	29.5	5	38.9	10	384	27
TPK15KP26A	TPK15KP26CA	26	28.9	31.9	5	42.1	10	357	29
TPK15KP28A	TPK15KP28CA	28	31.1	34.4	5	45.5	10	330	30
TPK15KP30A	TPK15KP30CA	30	33.3	36.8	5	48.4	10	309	35
TPK15KP33A	TPK15KP33CA	33	36.7	40.6	5	53.3	10	282	38
TPK15KP36A	TPK15KP36CA	36	40	44.2	5	58.1	10	258	40
TPK15KP40A	TPK15KP40CA	40	44.4	49.1	5	64.5	10	234	45
TPK15KP43A	TPK15KP43CA	43	47.8	52.8	5	69.4	10	216	49
TPK15KP45A	TPK15KP45CA	45	50	55.3	5	72.7	10	207	51
TPK15KP48A	TPK15KP48CA	48	53.3	58.9	5	77.4	10	195	55
TPK15KP51A	TPK15KP51CA	51	56.7	62.7	5	82.4	10	183	60
TPK15KP54A	TPK15KP54CA	54	60	66.3	5	87.1	10	171	64
TPK15KP58A	TPK15KP58CA	58	64.4	71.2	5	93.6	10	159	69
TPK15KP60A	TPK15KP60CA	60	66.7	73.7	5	96.8	10	156	70
TPK15KP64A	TPK15KP64CA	64	71.1	78.6	5	103	10	147	75
TPK15KP70A	TPK15KP70CA	70	77.8	86	5	113	10	132	84

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TPK15KP75A	TPK15KP75CA	75	83.3	92.1	5	121	10	123	90
TPK15KP78A	TPK15KP78CA	78	86.7	95.8	5	126	10	120	94
TPK15KP85A	TPK15KP85CA	85	94.4	104	5	137	10	108	102
TPK15KP90A	TPK15KP90CA	90	100	111	5	146	10	402	109
TPK15KP100A	TPK15KP100CA	100	111	123	5	162	10	93	122
TPK15KP110A	TPK15KP110CA	110	122	135	5	177	10	84	132
TPK15KP120A	TPK15KP120CA	120	133	147	5	193	10	78	145
TPK15KP130A	TPK15KP130CA	130	144	159	5	209	10	71	157
TPK15KP150A	TPK15KP150CA	150	167	185	5	243	10	62	183
TPK15KP160A	TPK15KP160CA	160	178	197	5	259	10	58	195
TPK15KP170A	TPK15KP170CA	170	189	209	5	275	10	55	207
TPK15KP180A	TPK15KP180CA	180	200	221	5	291	10	52	219
TPK15KP200A	TPK15KP200CA	200	222	245	5	322	10	47	243

Note: 1. Transient Voltage Suppressors are normally selected with reverse standoff voltage V_{WM} , which should be equal to or greater than the peak operating voltage.

2. TPK15KPXXA, "A" Suffix Designates Unidirectional Devices; TPK15KPXXXCA, "CA" Suffix Designates Bidirectional Devices.

SYMBOLS & DEFINITIONS

Symbol	Definition	Symbol	Definition
V_{WM}	Working Peak(Standoff) Voltage	I_{PP}	Peak Pulse Current
$V_{(BR)}$	Breakdown Voltage	V_C	Clamping Voltage
I_D	Standby Current	$I_{(BR)}$	Breakdown Current for $V_{(BR)}$

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