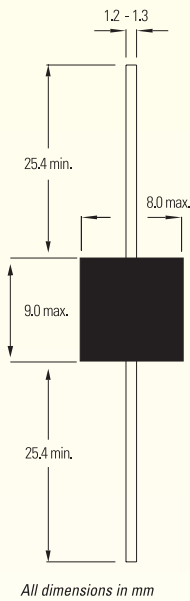


15KP High Power Series



Invisible Protection

When no problems exist, Diodes are totally invisible to the circuits they're protecting. But when potentially damaging transients occur, they provide high-speed "clamping" to prevent damage – and then return to their electronically invisible state.

FEATURES

- Glass passivated junction
- Excellent clamping capability
- Fast response time
- Low zener impedance
- 100% surge tested
- -65°C to +175°C
- 15,000 watt surge capability at 1 ms @ 25°C
- Uni-directional and bi-directional

MAXIMUM RATINGS

- Peak pulse power (PPK): 15,000 watts (10 X 1000 μ s)
- 7 watt steady state
- Response time: 1 X 10⁻¹² s (theoretical)
- Forward surge rating: 200 A, 8.3 ms half sine wave (uni-directional devices only)
- Operating and storage temperature: -55°C to +175°C

MECHANICAL CHARACTERISTICS

- Case: Molded plastic over glass passivated junction
- Terminals: Axial leads, solderable per MIL-STD-202 Method 208
- Polarity: Cathode indicated by color band
- Weight: 2.0 grams (approx.)

Transient Voltage Suppression (TVS) Diodes

15KP High Power Series

PART NUMBER (UNI)	PART NUMBER (BI)	REVERSE STAND-OFF VOLTAGE Vr (V)	BREAKDOWN VOLTAGE VBR (V) @ IT		MAXIMUM REVERSE LEAKAGE IR @ Vr IR (µA)	MAXIMUM CLAMPING VOLTAGE Vc @ IPP (V)	MAXIMUM PEAK PULSE CURRENT IPP (A)	MAX. VOLTAGE TEMPERATURE VARIATION OF VBR (mV/°C)
			MIN.	(mA)				
15KP17	15KP17C	17.0	18.9	50.0	5000.0	32.2	464.0	19.0
15KP17A	15KP17CA	17.0	18.9	50.0	5000.0	29.3	512.0	17.0
15KP18	15KP18C	18.0	20.0	50.0	5000.0	34.2	439.0	20.0
15KP18A	15KP18CA	18.0	20.0	50.0	5000.0	30.9	485.0	18.0
15KP20	15KP20C	20.0	22.2	20.0	1500.0	37.9	396.0	24.0
15KP20A	15KP20CA	20.0	22.2	20.0	1500.0	34.3	437.0	21.0
15KP22	15KP22C	22.0	24.4	10.0	500.0	41.1	365.0	27.0
15KP22A	15KP22CA	22.0	24.4	10.0	500.0	37.1	404.0	24.0
15KP24	15KP24C	24.0	26.7	5.0	150.0	45.0	333.0	30.0
15KP24A	15KP24CA	24.0	26.7	5.0	150.0	40.7	369.0	27.0
15KP26	15KP26C	26.0	28.9	5.0	50.0	48.7	308.0	32.0
15KP26A	15KP26CA	26.0	28.9	5.0	50.0	44.0	341.0	29.0
15KP28	15KP28C	28.0	31.1	5.0	25.0	52.4	286.0	35.0
15KP28A	15KP28CA	28.0	31.1	5.0	25.0	47.5	316.0	31.0
15KP30	15KP30C	30.0	33.3	5.0	15.0	56.2	267.0	27.0
15KP30A	15KP30CA	30.0	33.3	5.0	15.0	50.7	296.0	34.0
15KP33	15KP33C	33.0	36.7	5.0	10.0	60.6	248.0	42.0
15KP33A	15KP33CA	33.0	36.7	5.0	10.0	54.8	274.0	38.0
15KP36	15KP36C	36.0	40.0	5.0	10.0	66.0	227.0	46.0
15KP36A	15KP36CA	36.0	40.0	5.0	10.0	59.7	251.0	41.0
15KP40	15KP40C	40.0	44.4	5.0	10.0	72.8	206.0	51.0
15KP40A	15KP40CA	40.0	44.4	5.0	10.0	65.8	228.0	46.0
15KP43	15KP43C	43.0	47.8	5.0	10.0	77.1	195.0	55.0
15KP43A	15KP43CA	43.0	47.8	5.0	10.0	69.7	215.0	50.0
15KP45	15KP45C	45.0	50.0	5.0	10.0	80.7	186.0	57.0
15KP45A	15KP45CA	45.0	50.0	5.0	10.0	73.0	205.0	52.0
15KP48	15KP48C	48.0	53.3	5.0	10.0	85.9	175.0	62.0
15KP48A	15KP48CA	48.0	53.3	5.0	10.0	77.7	193.0	56.0
15KP51	15KP51C	51.0	56.7	5.0	10.0	91.5	164.0	66.0
15KP51A	15KP51CA	51.0	56.7	5.0	10.0	82.8	181.0	60.0

Note: Suffix "C" denotes bi-directional device. Suffix "A" denotes 5% tolerance device. No suffix denotes 10% tolerance device. Electrical specifications @ 25°C.

15KP High Power Series

PART NUMBER (UNI)	PART NUMBER (BI)	REVERSE STAND-OFF VOLTAGE V_R (V)	BREAKDOWN VOLTAGE V_{BR} (V) @ I_T		MAXIMUM REVERSE LEAKAGE I_R @ V_R I_R (μA)	MAXIMUM CLAMPING VOLTAGE V_C @ I_{PP} (V)	MAXIMUM PEAK PULSE CURRENT I_{PP} (A)	MAX. VOLTAGE TEMPERATURE VARIATION OF V_{BR} (mV/°C)
			MIN.	(mA)				
15KP54	15KP54C	54.0	60.0	5.0	10.0	96.8	155.0	70.0
15KP54A	15KP54CA	54.0	60.0	5.0	10.0	87.5	171.0	63.0
15KP58	15KP58C	58.0	64.4	5.0	10.0	104.0	144.0	76.0
15KP58A	15KP58CA	58.0	64.4	5.0	10.0	94.0	160.0	68.0
15KP60	15KP60C	60.0	66.7	5.0	10.0	107.0	140.0	78.0
15KP60A	15KP60CA	60.0	66.7	5.0	10.0	97.3	154.0	71.0
15KP64	15KP64C	64.0	71.1	5.0	10.0	115.0	130.0	84.0
15KP64A	15KP64CA	64.0	71.1	5.0	10.0	104.0	144.0	76.0
15KP70	15KP70C	70.0	77.8	5.0	10.0	126.0	119.0	92.0
15KP70A	15KP70CA	70.0	77.8	5.0	10.0	114.0	132.0	83.0
15KP75	15KP75C	75.0	83.3	5.0	10.0	135.0	111.0	100.0
15KP75A	15KP75CA	75.0	83.3	5.0	10.0	122.0	123.0	89.0
15KP78	15KP78C	78.0	86.7	5.0	10.0	140.0	107.0	104.0
15KP78A	15KP78CA	78.0	86.7	5.0	10.0	126.0	119.0	93.0
15KP85	15KP85C	85.0	94.4	5.0	10.0	152.0	99.0	113.0
15KP85A	15KP85CA	85.0	94.4	5.0	10.0	137.0	109.0	102.0
15KP90	15KP90C	90.0	100.0	5.0	10.0	160.0	94.0	120.0
15KP100	15KP100C	100.0	111.0	5.0	10.0	179.0	84.0	134.0
15KP110	15KP110C	110.0	122.0	5.0	10.0	196.0	77.0	147.0
15KP110A	15KP110CA	110.0	122.0	5.0	10.0	178.0	84.0	133.0
15KP120	15KP120C	120.0	133.0	5.0	10.0	214.0	70.0	161.0
15KP130	15KP130C	130.0	144.0	5.0	10.0	231.0	65.0	174.0
15KP150	15KP150C	150.0	167.0	5.0	10.0	268.0	56.0	202.0
15KP160	15KP160C	160.0	178.0	5.0	10.0	287.0	52.0	216.0
15KP170	15KP170C	170.0	189.0	5.0	10.0	304.0	49.0	229.0
15KP180	15KP180C	180.0	200.0	5.0	10.0	321.0	47.0	242.0
15KP200	15KP200C	200.0	222.0	5.0	10.0	356.0	42.0	269.0
15KP220	15KP220C	220.0	245.0	5.0	10.0	393.0	38.0	297.0
15KP240	15KP240C	240.0	267.0	5.0	10.0	428.0	35.0	324.0



15KP High Power Series

