

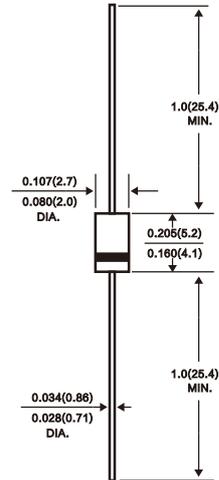
Features

- Glass Passivated Die Construction
- 400W Peak Pulse Power Dissipation
- 6.8V – 440V Standoff Voltage
- Uni- and Bi-Directional Versions Available
- Excellent Clamping Capability
- Fast Response Time
- Plastic Case Material has UL Flammability Classification Rating 94V-O

Mechanical Data

- Case: JEDEC DO-41 Low Profile Molded Plastic
- Terminals: Axial Leads, Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band or Cathode Notch
- Marking:
Unidirectional – Device Code and Cathode Band
Bidirectional – Device Code Only
- Weight: 0.34 grams (approx.)

DO-41(DO-204AL)



Dimensions in inches and (millimeters)

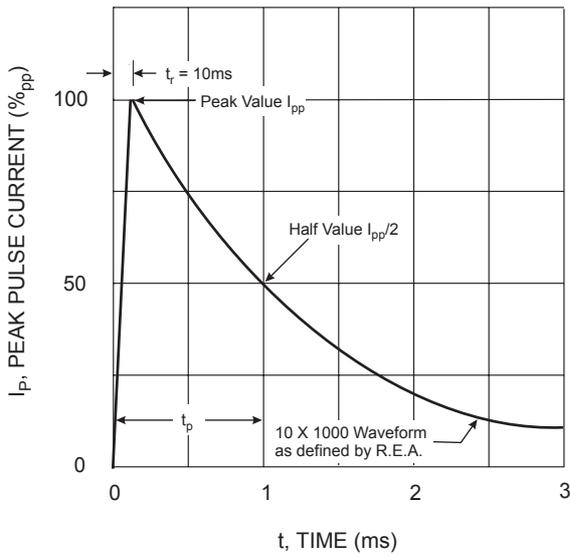
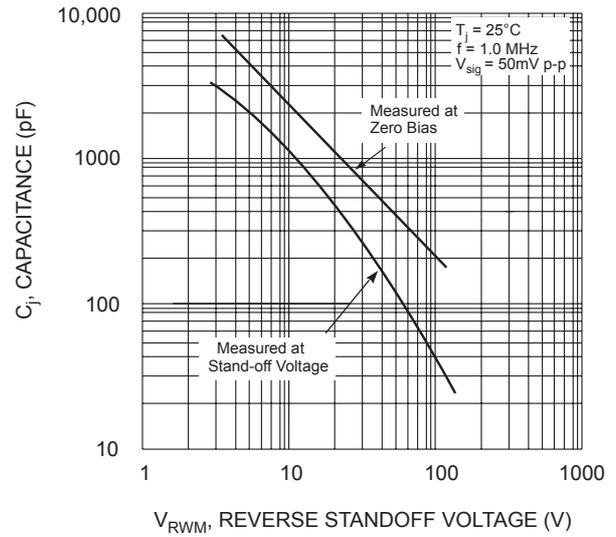
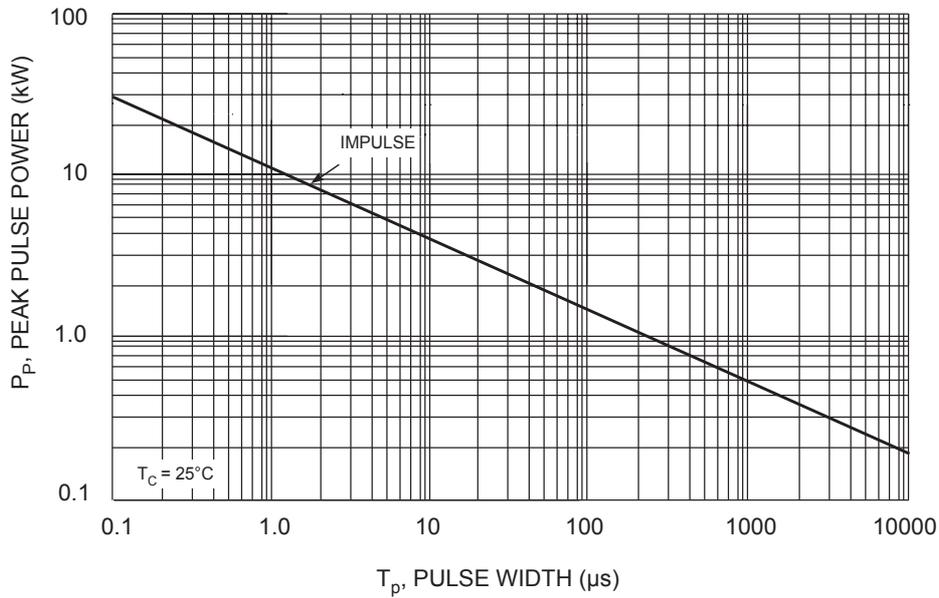
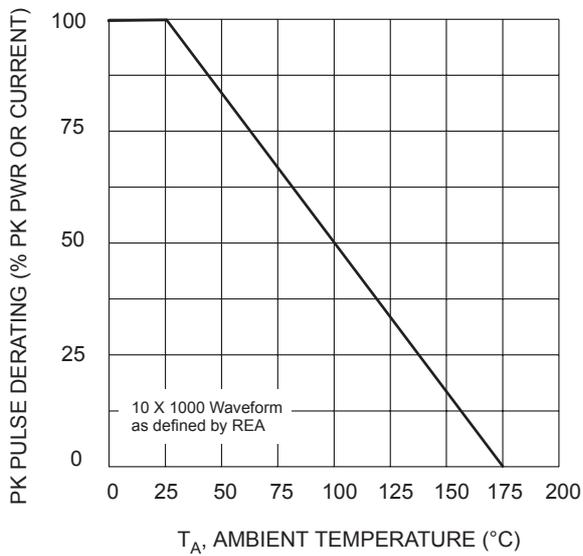
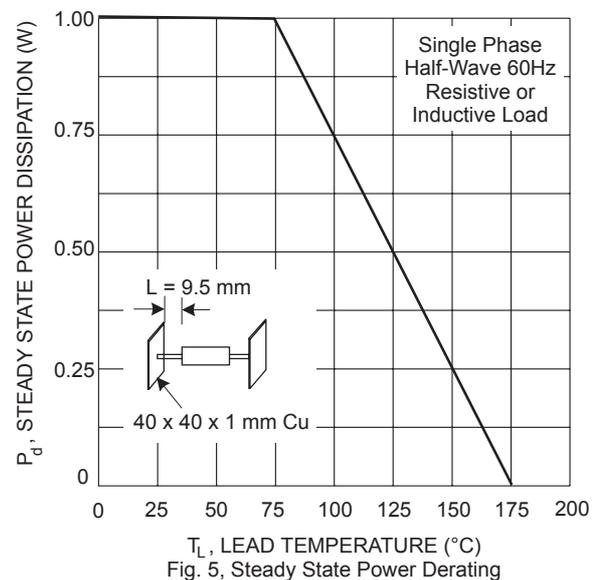
Maximum Ratings and Electrical Characteristics @ $T_A=25^\circ\text{C}$ unless otherwise specified

Characteristic	Symbol	Value	Unit
Peak Pulse Power Dissipation at $T_A = 25^\circ\text{C}$ (Note 1, 2, 5) Figure 3	PPPM	400 Minimum	W
Peak Forward Surge Current (Note 3)	IFSM	40	A
Peak Pulse Current on 10/1000 μs Waveform (Note 1) Figure 1	IPPM	See Table 1	A
Steady State Power Dissipation (Note 2, 4)	PM(AV)	1.0	W
Operating and Storage Temperature Range	T_j, T_{STG}	-65 to +175	$^\circ\text{C}$

- Note: 1. Non-repetitive current pulse, per Figure 1 and derated above $T_A = 25^\circ\text{C}$ per Figure 4.
 2. Mounted on 40mm² copper pad.
 3. 8.3ms single half sine-wave duty cycle = 4 pulses per minutes maximum.
 4. Lead temperature at $75^\circ\text{C} = T_L$.
 5. Peak pulse power waveform is 10/1000 μs .

400W TRANSIENT VOLTAGE SUPPRESSORS

UNI-DIRECTIONAL PART NUMBER	REVERSE STAND-OFF VOLTAGE VRWM (V)	BREAKDOWN VOLTAGE VBR (V) MIN. @IT	BREAKDOWN VOLTAGE VBR (V) MAX. @IT	TEST CURRENT IT (mA)	MAXIMUM CLAMPING VOLTAGE @Ipp Vc (V)	PEAK PULSE CURRENT Ipp (A)	REVERSE LEAKAGE @VRWM IR (uA)
P4KE6.8A(CA)	5.80	6.45	7.14	10	10.5	40.00	1000
P4KE7.5A(CA)	6.40	7.13	7.88	10	11.3	37.00	500
P4KE8.2A(CA)	7.02	7.79	8.61	10	12.1	35.00	200
P4KE9.1A(CA)	7.78	8.65	9.50	1	13.4	31.00	50
P4KE10A(CA)	8.55	9.50	10.50	1	14.5	29.00	10
P4KE11A(CA)	9.40	10.50	11.60	1	15.6	27.00	5
P4KE12A(CA)	10.20	11.40	12.60	1	16.7	25.00	5
P4KE13A(CA)	11.10	12.40	13.70	1	18.2	23.00	5
P4KE15A(CA)	12.80	14.30	15.80	1	21.2	20.00	5
P4KE16A(CA)	13.60	15.20	16.80	1	22.5	19.00	5
P4KE18A(CA)	15.30	17.10	18.90	1	25.2	17.00	5
P4KE20A(CA)	17.10	19.00	21.00	1	27.7	15.00	5
P4KE22A(CA)	18.80	20.90	23.10	1	30.6	14.00	5
P4KE24A(CA)	20.50	22.80	25.20	1	33.2	13.00	5
P4KE27A(CA)	23.10	25.70	28.40	1	37.5	11.20	5
P4KE30A(CA)	25.60	28.50	31.50	1	41.4	10.00	5
P4KE33A(CA)	28.20	31.40	34.70	1	45.7	9.00	5
P4KE36A(CA)	30.80	34.20	37.80	1	49.9	8.40	5
P4KE39A(CA)	33.30	37.10	41.00	1	53.9	7.80	5
P4KE43A(CA)	36.80	40.90	45.20	1	59.3	7.10	5
P4KE47A(CA)	40.20	44.70	49.40	1	64.8	5.00	5
P4KE51A(CA)	43.60	48.50	53.60	1	70.1	6.00	5
P4KE56A(CA)	47.80	53.20	58.80	1	77.0	5.50	5
P4KE62A(CA)	53.00	58.90	65.10	1	85.0	5.00	5
P4KE68A(CA)	58.10	64.60	71.40	1	92.0	4.60	5
P4KE75A(CA)	64.10	71.30	78.80	1	103.0	4.10	5
P4KE82A(CA)	70.10	77.90	86.10	1	113.0	3.70	5
P4KE91A(CA)	77.80	86.50	95.50	1	125.0	3.40	5
P4KE100A(CA)	85.50	95.00	105.00	1	137.0	3.10	5
P4KE110A(CA)	94.00	105.00	116.00	1	152.0	2.80	5
P4KE120A(CA)	102.00	114.00	126.00	1	165.0	2.50	5
P4KE130A(CA)	111.00	124.00	137.00	1	179.0	2.30	5
P4KE150A(CA)	128.00	143.00	158.00	1	207.0	2.00	5
P4KE160A(CA)	136.00	152.00	168.00	1	219.0	1.90	5
P4KE170A(CA)	145.00	162.00	179.00	1	234.0	1.80	5
P4KE180A(CA)	154.00	171.00	189.00	1	246.0	1.70	5
P4KE200A(CA)	171.00	190.00	210.00	1	274.0	1.50	5
P4KE220A(CA)	185.00	209.00	231.00	1	328.0	1.20	5
P4KE250A(CA)	214.00	237.00	263.00	1	344.0	1.20	5
P4KE300A(CA)	256.00	285.00	315.00	1	414.0	1.00	5
P4KE350A(CA)	300.00	332.00	368.00	1	482.0	0.80	5
P4KE400A(CA)	342.00	380.00	420.00	1	548.0	0.70	5
P4KE440A(CA)	376.00	418.00	462.00	1	600.0	1.00	5


Fig. 1 Pulse Waveform

Fig. 2 Typical Junction Capacitance

Fig. 3 Pulse Rating Curve

Fig. 4 Pulse Derating Curve

Fig. 5, Steady State Power Derating