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REVISIONS				DOC. NO. SPC-F004, Total Pages: 2 Effective: 7/15/97. DCP No: 229 Supersedes DCP No: 103				
DCP #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
139	A	RELEASED	J.W.M.	7/23/97	J.C.	7/23/97	B.B.	7/23/97

Part No.	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)
1.5KE10A	8.55	9.50	10.50	1	14.5	103.0	10.0
1.5KE10C	8.10	9.00	11.00	1	15.0	100.0	20.0
1.5KE12A	10.20	11.40	12.60	1	16.7	90.0	5.0
1.5KE12C	9.72	10.80	13.20	1	17.3	87.0	5.0
1.5KE15A	12.80	14.30	15.80	1	21.2	71.0	5.0
1.5KE15C	12.10	13.50	16.50	1	22.0	68.0	5.0
1.5KE16A	13.60	15.20	16.80	1	22.5	67.0	5.0
1.5KE16C	12.90	14.40	17.60	1	23.5	64.0	5.0
1.5KE18C	14.50	16.20	19.80	1	26.5	56.5	5.0
1.5KE20A	17.10	19.00	21.00	1	27.7	54.0	5.0
1.5KE20C	16.20	18.00	22.00	1	29.1	51.5	5.0
1.5KE22A	18.80	20.90	23.10	1	30.6	49.0	5.0
1.5KE22C	17.80	19.80	24.20	1	31.9	47.0	5.0
1.5KE30A	25.60	28.50	31.50	1	41.4	36.0	5.0
1.5KE30C	24.30	27.00	33.00	1	43.5	34.5	5.0
1.5KE36A	30.80	34.20	37.80	1	49.9	30.0	5.0
1.5KE36C	29.10	32.40	39.60	1	52.0	29.0	5.0
1.5KE36CA	30.80	34.20	37.80	1	49.9	30.0	5.0
1.5KE39A	33.30	37.10	41.00	1	53.9	28.0	5.0
1.5KE39C	31.60	35.10	42.90	1	56.4	26.5	5.0
1.5KE51A	43.60	48.50	53.60	1	70.1	21.4	5.0
1.5KE51C	41.30	45.90	56.10	1	73.5	20.4	5.0
1.5KE51CA	43.60	48.50	53.60	1	70.1	21.4	5.0
1.5KE68A	58.10	64.60	71.40	1	92.0	16.3	5.0
1.5KE68C	55.10	61.20	74.80	1	98.0	15.3	5.0
1.5KE75A	64.10	71.30	78.80	1	103.0	14.6	5.0
1.5KE75C	60.70	67.50	82.50	1	108.0	13.9	5.0
1.5KE82A	70.10	77.90	86.10	1	113.0	13.3	5.0
1.5KE82C	66.40	73.80	90.20	1	118.0	12.7	5.0
1.5KE82CA	70.10	77.90	86.10	1	113.0	13.3	5.0
1.5KE91A	77.80	86.50	95.50	1	125.0	12.0	5.0
1.5KE91C	73.70	81.90	100.00	1	131.0	11.4	5.0
1.5KE100A	85.50	95.00	105.00	1	137.0	11.0	5.0
1.5KE100C	81.00	90.00	110.00	1	144.0	10.5	5.0
1.5KE120A	102.00	114.00	126.00	1	165.0	9.1	5.0
1.5KE120C	97.20	108.00	132.00	1	173.0	8.7	5.0
1.5KE150A	128.00	143.00	158.00	1	207.0	7.2	5.0
1.5KE150C	121.00	135.00	165.00	1	215.0	7.0	5.0
1.5KE160CA	136.00	152.00	168.00	1	219.0	6.8	5.0
1.5KE180A	154.00	171.00	189.00	1	246.0	6.1	5.0
1.5KE180C	146.00	162.00	198.00	1	258.0	5.8	5.0
1.5KE200A	171.00	190.00	210.00	1	274.0	5.5	5.0
1.5KE200C	162.00	180.00	220.00	1	287.0	5.2	5.0
1.5KE200CA	171.00	190.00	210.00	1	274.0	5.5	5.0
1.5KE250A	214.00	237.00	263.00	1	344.0	5.0	5.0
1.5KE250C	202.00	225.00	275.00	1	360.0	5.0	5.0
1.5KE300A	256.00	285.00	315.00	1	414.0	5.0	5.0
1.5KE300C	243.00	270.00	330.00	1	430.0	5.0	5.0

C or CA suffix denotes Bi-Directional - Electrical characteristics apply in both directions

SPC-F004.DWG

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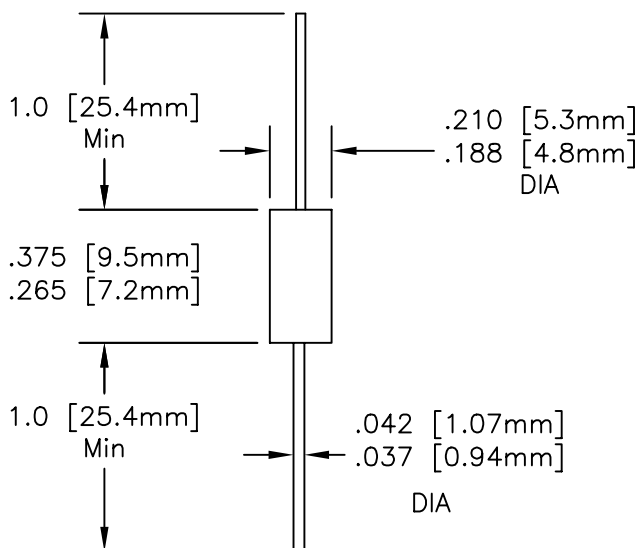
UNLESS OTHERWISE STATED, DIMENSIONS ARE FOR REFERENCE PURPOSES ONLY.	DRAWN BY:	DATE:	DRAWING TITLE:			
	JEFF MCVICKER	7/23/97	GLASS PASSIVATED JUNCTION TRANSIENT VOLTAGE SUPPRESSOR			
	CHECKED BY:	DATE:	SIZE	DWG. NO.	ELECTRONIC FILE	REV
	JOHN COLE	7/23/97	A	TA-91	TA-91.DWG	A
	APPROVED BY:	DATE:	SCALE: NTS		U.O.M.: INCHES [mm]	SHEET: 1 OF 3
BRETT BRAATZ	8/1/97					

FEATURES:

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Glass passivated chip junction in Molded Plastic package
- 1500 W surge capability at 1 ms
- Excellent clamping capability
- Low zener impedance
- Fast response time: typically less than 1.0 ps from 0 volts to BV min.
- Typical I_R less than 1 uA above 10V
- High temperature soldering guaranteed: 260°C/10 seconds/.375", [9.5mm] lead length/5lbs., [2.3kg] tension

MECHANICAL DATA

- Case: JEDEC DO-201AE Molded plastic
- Terminals: Axial leads, solderable per MIL-STD-202, Method 208
- Polarity Color band denoted cathode except Bipolar
- Mounting Position: Any
- Weight: 0.045 ounce [1.2 grams]



MAXIMUM RATINGS AND CHARACTERISTICS

Rating (At 25° C ambient temperature unless otherwise specified)	Symbol	Value	Units
Peak Power Dissipation at $T_A=25^\circ\text{C}$, $T_P=1\text{ms}$ (NOTE 1)	P_{PK}	Minimum 1500	Watts
Steady State Power Dissipation at $T_L=75^\circ\text{C}$	PD	5	Watts
Lead Lengths .375", (9.5mm) (NOTE 2)			
Peak Forward Surge Current, 8.3ms Single Half Sine Wave	I_{FSM}	200	Amps
Superimposed on Rated Load (JEDEC Method) (NOTE 3)			
Operating and Storage Temperature Range	T_J, T_{STG}	-65 to +175	°C
NOTES:			
1. Non-repetitive current pulse, per Fig. 3 and derated above $T_A=25^\circ\text{C}$ per Fig. 2			
2. Mounted on Copper Leaf Area of 0.79 in ² (20mm ²)			
3. 8.3ms single half sine-wave, duty cycle=4 pulses per minutes maximum			

SIZE A	DWG. NO. TA-91	ELECTRONIC FILE TA-91.DWG	REV A
SCALE: NTS		U.O.M.: INCHES [mm]	SHEET: 2 OF 3

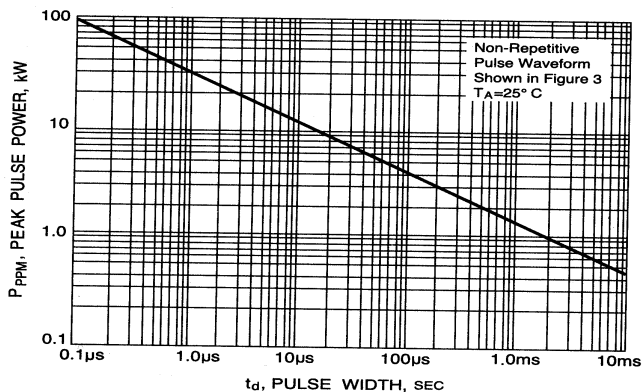


FIG. 1-PEAK PULSE POWER RATING CURVE

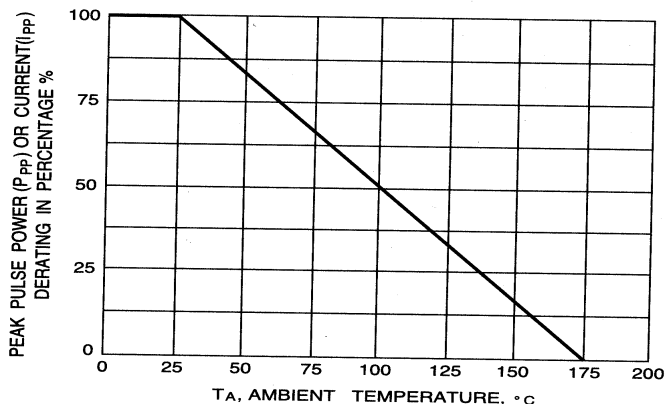


FIGURE 2-PULSE DERATING CURVE

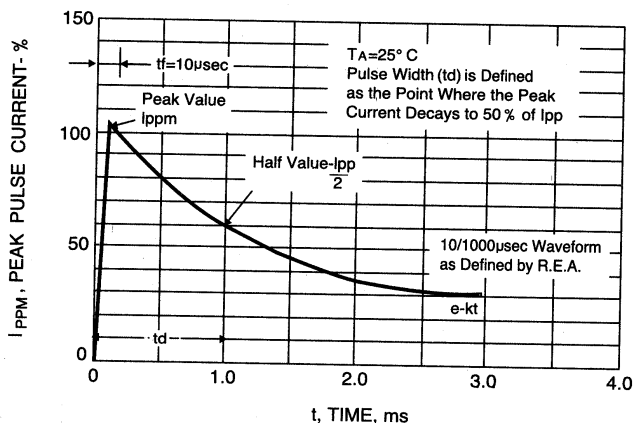


FIGURE 3-PULSE WAVEFORM

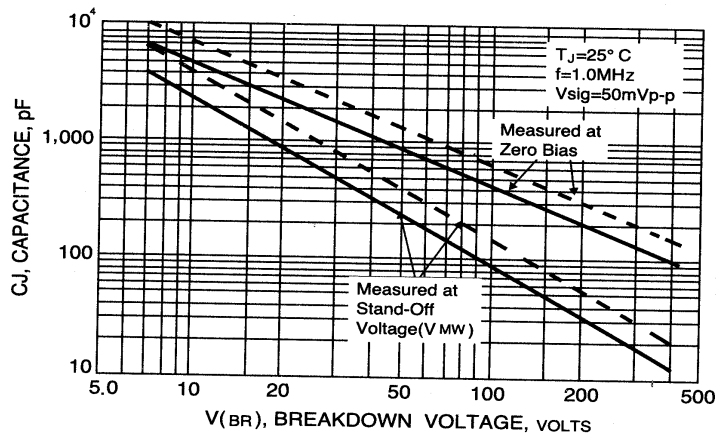


FIG. 4-TYPICAL JUNCTION CAPACITANCE

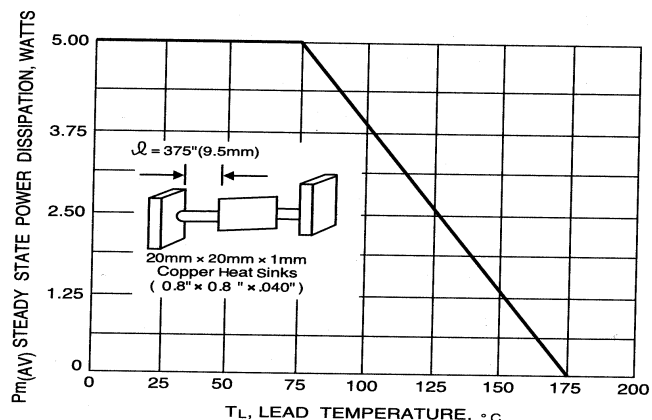


FIG. 5-STEADY STATE POWER DERATING CURVE

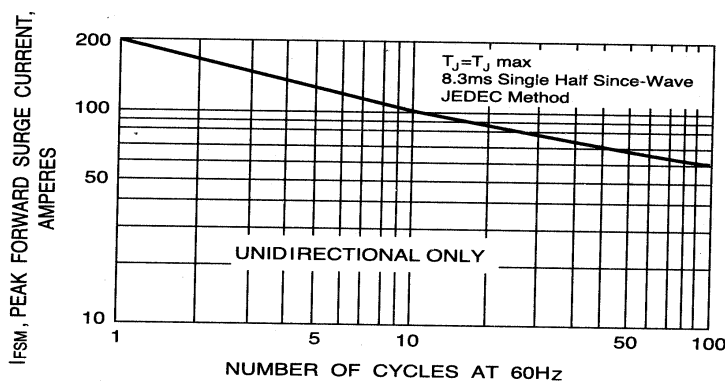


FIG. 6-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT UNIDIRECTIONAL

SIZE A	DWG. NO. TA-91	ELECTRONIC FILE TA-91.DWG	REV A
SCALE: NTS		U.O.M.: INCHES [mm]	SHEET: 3 OF 3