

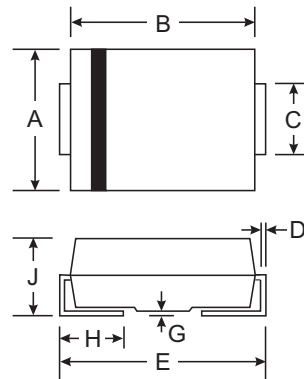
VOLTAGE RANGE: 6.5 - 170V
POWER: 1500 Watts

Features

- 1500 Watts of Peak Pulse Power Dissipation
- Available in stand-off voltage range of 6.5 to 170 V
- Low Capacitance of 100 pF or less
- Molding compound flammability rating : UL94V-O

Mechanical Data

- Case: SMC/DO-214AB, Molded Plastic
- Terminals: Solder Plated, Solderable per MIL-STD-750, Method 2026
- Polarity: Cathode Band or Cathode Notch
- Marking: Type Number
- Weight: 0.21 grams (approx.)



SMC/DO-214AB		
Dim	Min	Max
A	5.59	6.22
B	6.60	7.11
C	2.75	3.18
D	0.15	0.31
E	7.75	8.13
G	0.10	0.20
H	0.76	1.52
J	2.00	2.62
All Dimensions in mm		

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

Characteristic	Symbol	Value	Unit
Peak Pulse Power Dissipation on 10/1000 μs waveform (Note 1, Figure 1)	P_{PP}	1500	W
Steady State Power Dissipation at $T_L = 75^\circ\text{C}$ Lead Lengths 0.375", (9.5mm) (Note 2)	P_D	5.0	W
Thermal Resistance (Junction to Lead)	$R_{\theta JL}$	20	$^\circ\text{C/W}$
Operating and Storage Temperature Range	T_J, T_{STG}	- 65 to + 175	$^\circ\text{C}$

Notes :

- (1) Non-repetitive Current pulse, per Fig. 3 and derated above $T_a = 25^\circ\text{C}$ per Fig. 2
- (2) 8.3 ms single half sine-wave, duty cycle = 4 pulses per minutes maximum.



Type	Reverse Stand-Off Voltage	Breakdown Voltage Min. @I _T	Breakdown Voltage Max. @ I _T	Test Current	Maximum Clamping Voltage @I _{PP}	Peak Pulse Current	Reverse Leakage @V _{RWM}	Working Inverse Blocking Voltage	Maximum Junction Capacitance @ 0 Volts
	V _{RWM} (V)	V _{BR MIN} (V)	V _{BR MAX} (V)	I _T (mA)	V _C (V)	I _{PP} (A)	I _R (uA)	V _{WIB} (V)	C _J (pF)
SLCD6.5CA	6.5	7.22	9.14	10	12.3	100.0	1000.0	75	100
SLCD6.5A	6.5	7.22	8.30	10	11.2	100.0	1000.0	75	100
SLCD7.0CA	7.0	7.78	9.86	10	13.3	100.0	500.0	75	100
SLCD7.0A	7.0	7.78	8.95	10	12.0	100.0	500.0	75	100
SLCD7.5CA	7.5	8.33	10.67	1.0	14.3	100.0	250.0	75	100
SLCD7.5A	7.5	8.33	9.58	1.0	12.9	100.0	250.0	75	100
SLCD8.0CA	8.0	8.89	11.3	1.0	15.0	100.0	100.0	75	100
SLCD8.0A	8.0	8.89	10.23	1.0	13.6	100.0	100.0	75	100
SLCD8.5CA	8.5	9.44	11.92	1.0	15.9	94.3	50.0	75	100
SLCD8.5A	8.5	9.44	10.82	1.0	14.4	100.0	50.0	75	100
SLCD9.0CA	9.0	10.0	12.6	1.0	16.9	88.8	10.0	75	100
SLCD9.0A	9.0	10.0	11.5	1.0	15.4	97.4	10.0	75	100
SLCD10CA	10	11.1	14.1	1.0	18.8	79.8	5.0	75	100
SLCD10A	10	11.1	12.8	1.0	17.0	88.2	5.0	75	100
SLCD11CA	11	12.2	15.4	1.0	20.1	74.6	5.0	75	100
SLCD11A	11	12.2	14.0	1.0	18.2	82.4	5.0	75	100
SLCD12CA	12	13.3	16.9	1.0	22.0	68.2	5.0	75	100
SLCD12A	12	13.3	15.3	1.0	19.9	75.4	5.0	75	100
SLCD13CA	13	14.4	18.2	1.0	23.8	63.0	5.0	75	100
SLCD13A	13	14.4	16.5	1.0	21.5	69.8	5.0	75	100
SLCD14CA	14	15.6	19.8	1.0	25.8	58.1	5.0	75	100
SLCD14A	14	15.6	17.9	1.0	23.2	64.7	5.0	75	100
SLCD15CA	15	16.7	21.1	1.0	26.9	55.8	5.0	75	100
SLCD15A	15	16.7	19.2	1.0	24.4	61.5	5.0	75	100
SLCD16CA	16	17.8	22.6	1.0	28.8	52.1	5.0	75	100
SLCD16A	16	17.8	20.5	1.0	26.0	57.7	5.0	75	100
SLCD17CA	17	18.9	23.9	1.0	30.5	49.2	5.0	75	100
SLCD17A	17	18.9	21.7	1.0	27.6	54.3	5.0	75	100
SLCD18CA	18	20.0	25.3	1.0	32.2	46.6	5.0	75	100
SLCD18A	18	20.0	23.3	1.0	29.2	51.4	5.0	75	100
SLCD20CA	20	22.2	28.1	1.0	35.8	41.9	5.0	75	100
SLCD20A	20	22.2	25.5	1.0	32.4	46.3	5.0	75	100
SLCD22CA	22	24.4	30.9	1.0	39.4	38.1	5.0	75	100
SLCD22A	22	24.4	28.0	1.0	35.5	42.3	5.0	75	100
SLCD24CA	24	26.7	33.8	1.0	43.0	34.9	5.0	75	100
SLCD24A	24	26.7	30.7	1.0	38.9	38.6	5.0	75	100

Type	Reverse Stand-Off Voltage	Breakdown Voltage Min. @I _T	Breakdown Voltage Max. @ I _T	Test Current	Maximum Clamping Voltage @I _{PP}	Peak Pulse Current	Reverse Leakage @V _{RWM}	Working Inverse Blocking Voltage	Maximum Junction Capacitance @ 0 Volts
	V _{RWM} (V)	V _{BR MIN} (V)	V _{BR MAX} (V)	I _T (mA)	V _C (V)	I _{PP} (A)	I _R (uA)	V _{WIB} (V)	C _J (pF)
SLCD30CA	30	33.3	42.2	1.0	53.5	28.0	5.0	75	100
SLCD30A	30	33.3	38.3	1.0	48.4	31.0	5.0	75	100
SLCD33CA	33	36.7	46.5	1.0	59.0	25.4	5.0	75	100
SLCD33A	33	36.7	42.2	1.0	53.3	28.1	5.0	75	100
SLCD36CA	36	40.0	50.7	1.0	64.3	23.3	5.0	75	100
SLCD36A	36	40.0	46.0	1.0	58.1	25.8	5.0	75	100
SLCD40CA	40	44.4	56.3	1.0	71.4	21.0	5.0	75	100
SLCD40A	40	44.4	51.1	1.0	64.5	23.3	5.0	75	100
SLCD43CA	43	47.8	60.5	1.0	76.7	19.6	5.0	75	100
SLCD43A	43	47.8	54.9	1.0	69.4	21.6	5.0	75	100
SLCD45CA	45	50.0	63.3	1.0	80.3	18.7	5.0	75	100
SLCD45A	45	50.0	57.5	1.0	72.7	20.6	5.0	75	100
SLCD48CA	48	53.3	67.5	1.0	85.5	17.5	5.0	75	100
SLCD48A	48	53.3	61.3	1.0	77.4	19.4	5.0	75	100
SLCD51CA	51	56.7	71.8	1.0	91.1	16.5	5.0	75	100
SLCD51A	51	56.7	65.2	1.0	82.4	18.2	5.0	75	100
SLCD54CA	54	60.0	76.0	1.0	96.3	15.6	5.0	75	100
SLCD54A	54	60.0	69.0	1.0	87.1	17.2	5.0	75	100
SLCD58CA	58	64.4	81.6	1.0	103	14.6	5.0	75	100
SLCD58A	58	64.4	74.1	1.0	93.6	16.0	5.0	75	100
SLCD60CA	60	66.7	84.5	1.0	107	14.0	5.0	75	100
SLCD60A	60	66.7	76.7	1.0	96.8	15.5	5.0	75	100
SLCD64CA	64	71.1	90.1	1.0	114	13.2	5.0	75	100
SLCD64A	64	71.1	81.8	1.0	103	14.6	5.0	75	100
SLCD70CA	70	77.8	98.6	1.0	125	12.0	5.0	75	100
SLCD70A	70	77.8	89.5	1.0	113	13.3	5.0	75	100
SLCD75CA	75	83.0	105.7	1.0	134	11.2	5.0	75	100
SLCD75A	75	83.0	95.8	1.0	121	12.4	5.0	75	100
SLCD78CA	78	86.0	109.8	1.0	139	10.8	5.0	75	100
SLCD78A	78	86.0	99.7	1.0	126	11.9	5.0	75	100
SLCD85CA	85	94.0	119.2	1.0	151	9.9	5.0	75	100
SLCD85A	85	94.0	108.2	1.0	137	10.9	5.0	75	100
SLCD90CA	90	100	126.5	1.0	160	9.4	5.0	75	100
SLCD90A	90	100	115.5	1.0	146	10.3	5.0	75	100
SLCD100	100	111	141.0	1.0	179	8.4	5.0	75	100
SLCD100A	100	111	128.0	1.0	162	9.3	5.0	75	100

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	$V_{RWM}(V)$	$V_{BR MIN}(V)$	$V_{BR MAX}(V)$	$I_T (mA)$	$V_C(V)$	$I_{PP}(A)$	$I_R(\mu A)$	$V_{WIB}(V)$	$C_J(pF)$
SLCD110CA	110	122	154.5	1.0	196	7.7	5.0	75	100
SLCD110A	110	122	140.5	1.0	177	8.5	5.0	75	100
SLCD120CA	120	133	169.0	1.0	214	7.0	5.0	75	100
SLCD120A	120	133	153.0	1.0	193	7.8	5.0	75	100
SLCD130CA	130	144	182.5	1.0	231	6.5	5.0	75	100
SLCD130A	130	144	165.5	1.0	209	7.2	5.0	75	100
SLCD150CA	150	167	211.5	1.0	268	5.6	5.0	75	100
SLCD150A	150	167	192.5	1.0	243	6.2	5.0	75	100
SLCD160CA	160	178	226.0	1.0	287	5.2	5.0	75	100
SLCD160A	160	178	205.0	1.0	259	5.8	5.0	75	100
SLCD170CA	170	189	239.5	1.0	304	4.9	5.0	75	100
SLCD170A	170	189	217.5	1.0	275	5.5	5.0	75	100