

VOLTAGE RANGE: 6.5 - 170V

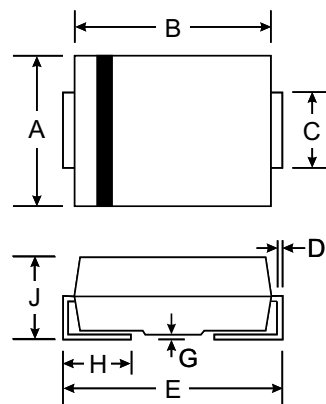
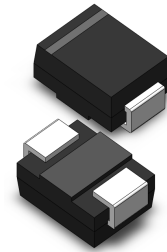
POWER: 600Watts

Features

- 600W peak pulse power capability with a 10/1000 μ s waveform
- Low junction capacitance
- Excellent clamping capability
- Very response Time

Mechanical Data

- Case : SMB Molded plastic
- Epoxy : UL94V-O rate flame retardant
- Lead : Lead Formed for Surface Mount
- Polarity : Color band denotes cathode end
- Mounting position : Any
- Weight: 0.093 grams (approx.)



SMB(DO-214AA)		
Dim	Min	Max
A	3.30	3.94
B	4.06	4.70
C	1.91	2.21
D	0.15	0.31
E	5.00	5.59
G	0.10	0.20
H	0.76	1.52
J	2.00	2.62
All Dimensions in mm		

Maximum Ratings

Rating at 25 °C ambient temperature unless otherwise specified.

Characteristic	Symbol	Value	Units
Peak Pulse Power Dissipation on 10/1000 μ s waveform ⁽¹⁾⁽²⁾	P _{PPM}	Minimum 600	W
Peak Pulse Current on 10/1000 μ s waveform ⁽¹⁾	I _{PPM}	See Table	A
Typical Thermal resistance, Junction to ambient	R _{ΘJA}	100	°C/W
Operating Junction and Storage Temperature Range	T _J , T _{STG}	- 55 to + 150	°C

Notes :

(1) Non-repetitive Current pulse and derated above Ta = 25 °C

(2) Mounted on 0.2 x 0.2" (5.0 x 5.0 mm) copper pads to each terminal.

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)
SLCB6.5CA	6.5	7.22	9.14	10	12.3	48.8	1000.0	75	50
SLCB6.5A	6.5	7.22	8.30	10	11.2	53.6	1000.0	75	50
SLCB7.0CA	7.0	7.78	9.86	10	13.3	45.1	500.0	75	50
SLCB7.0A	7.0	7.78	8.95	10	12.0	50.0	500.0	75	50
SLCB7.5CA	7.5	8.33	10.67	1.0	14.3	42.0	250.0	75	50
SLCB7.5A	7.5	8.33	9.58	1.0	12.9	46.5	250.0	75	50
SLCB8.0CA	8.0	8.89	11.3	1.0	15.0	40.0	100.0	75	50
SLCB8.0A	8.0	8.89	10.23	1.0	13.6	44.1	100.0	75	50
SLCB8.5CA	8.5	9.44	11.92	1.0	15.9	37.7	50.0	75	50
SLCB8.5A	8.5	9.44	10.82	1.0	14.4	41.7	50.0	75	50
SLCB9.0CA	9.0	10.0	12.6	1.0	16.9	35.5	10.0	75	50
SLCB9.0A	9.0	10.0	11.5	1.0	15.4	39.0	10.0	75	50
SLCB10CA	10	11.1	14.1	1.0	18.8	31.9	5.0	75	50
SLCB10A	10	11.1	12.8	1.0	17.0	35.3	5.0	75	50
SLCB11CA	11	12.2	15.4	1.0	20.1	29.9	5.0	75	50
SLCB11A	11	12.2	14.0	1.0	18.2	33.0	5.0	75	50
SLCB12CA	12	13.3	16.9	1.0	22.0	27.3	5.0	75	50
SLCB12A	12	13.3	15.3	1.0	19.9	30.2	5.0	75	50
SLCB13CA	13	14.4	18.2	1.0	23.8	25.2	5.0	75	50
SLCB13A	13	14.4	16.5	1.0	21.5	27.9	5.0	75	50
SLCB14CA	14	15.6	19.8	1.0	25.8	23.3	5.0	75	50
SLCB14A	14	15.6	17.9	1.0	23.2	25.9	5.0	75	50
SLCB15CA	15	16.7	21.1	1.0	26.9	22.3	5.0	75	50
SLCB15A	15	16.7	19.2	1.0	24.4	24.6	5.0	75	50
SLCB16CA	16	17.8	22.6	1.0	28.8	20.8	5.0	75	50
SLCB16A	16	17.8	20.5	1.0	26.0	23.1	5.0	75	50
SLCB17CA	17	18.9	23.9	1.0	30.5	19.7	5.0	75	50
SLCB17A	17	18.9	21.7	1.0	27.6	21.7	5.0	75	50
SLCB18CA	18	20.0	25.3	1.0	32.2	18.6	5.0	75	50
SLCB18A	18	20.0	23.3	1.0	29.2	20.5	5.0	75	50
SLCB20CA	20	22.2	28.1	1.0	35.8	16.8	5.0	75	50
SLCB20A	20	22.2	25.5	1.0	32.4	18.5	5.0	75	50
SLCB22CA	22	24.4	30.9	1.0	39.4	15.2	5.0	75	50
SLCB22A	22	24.4	28.0	1.0	35.5	16.9	5.0	75	50
SLCB24CA	24	26.7	33.8	1.0	43.0	14.0	5.0	75	50
SLCB24A	24	26.7	30.7	1.0	38.9	15.4	5.0	75	50
SLCB26CA	26	28.9	36.6	1.0	46.6	12.9	5.0	75	50
SLCB26A	26	28.9	33.2	1.0	42.1	14.3	5.0	75	50
SLCB28CA	28	31.1	39.4	1.0	50.0	12.0	5.0	75	50
SLCB28A	28	31.1	35.8	1.0	45.4	13.2	5.0	75	50

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)
SLCB33CA	33	36.7	46.5	1.0	59.0	10.2	5.0	75	50
SLCB33A	33	36.7	42.2	1.0	53.3	11.3	5.0	75	50
SLCB36CA	36	40.0	50.7	1.0	64.3	9.3	5.0	75	50
SLCB36A	36	40.0	46.0	1.0	58.1	10.3	5.0	75	50
SLCB40CA	40	44.4	56.3	1.0	71.4	8.4	5.0	75	50
SLCB40A	40	44.4	51.1	1.0	64.5	9.3	5.0	75	50
SLCB43CA	43	47.8	60.5	1.0	76.7	7.8	5.0	75	50
SLCB43A	43	47.8	54.9	1.0	69.4	8.6	5.0	75	50
SLCB45CA	45	50.0	63.3	1.0	80.3	7.5	5.0	75	50
SLCB45A	45	50.0	57.5	1.0	72.7	8.3	5.0	75	50
SLCB48CA	48	53.3	67.5	1.0	85.5	7.0	5.0	75	50
SLCB48A	48	53.3	61.3	1.0	77.4	7.8	5.0	75	50
SLCB51CA	51	56.7	71.8	1.0	91.1	6.6	5.0	75	50
SLCB51A	51	56.7	65.2	1.0	82.4	7.3	5.0	75	50
SLCB54CA	54	60.0	76.0	1.0	96.3	6.2	5.0	75	50
SLCB54A	54	60.0	69.0	1.0	87.1	6.9	5.0	75	50
SLCB58CA	58	64.4	81.6	1.0	103	5.8	5.0	75	50
SLCB58A	58	64.4	74.1	1.0	93.6	6.4	5.0	75	50
SLCB60CA	60	66.7	84.5	1.0	107	5.6	5.0	75	50
SLCB60A	60	66.7	76.7	1.0	96.8	6.2	5.0	75	50
SLCB64CA	64	71.1	90.1	1.0	114	5.3	5.0	75	50
SLCB64A	64	71.1	81.8	1.0	103	5.8	5.0	75	50
SLCB70CA	70	77.8	98.6	1.0	125	4.8	5.0	75	50
SLCB70A	70	77.8	89.5	1.0	113	5.3	5.0	75	50
SLCB75CA	75	83.0	105.7	1.0	134	4.5	5.0	75	50
SLCB75A	75	83.0	95.8	1.0	121	5.0	5.0	75	50
SLCB78CA	78	86.0	109.8	1.0	139	4.3	5.0	75	50
SLCB78A	78	86.0	99.7	1.0	126	4.8	5.0	75	50
SLCB85CA	85	94.0	119.2	1.0	151	4.0	5.0	75	50
SLCB85A	85	94.0	108.2	1.0	137	4.4	5.0	75	50
SLCB90CA	90	100	126.5	1.0	160	3.8	5.0	75	50
SLCB90A	90	100	115.5	1.0	146	4.1	5.0	75	50

TYPE	Reverse Stand-Off Voltage	Breakdown Voltage Min. @ I_T	Breakdown Voltage Max. @ I_T	Test Current	Clamping Voltage @ I_{PP}	Peak Pulse Current	Reverse Leakage @ V_{RMW}	Working Inverse Blocking Voltage	Maximum Junction Capacitance @ 0 Volts
	$V_{RMW}(V)$	$V_{BR MIN}(V)$	$V_{BR MAX}(V)$	$I_T (mA)$	$V_C(V)$	$PP(A)$	$I_R(\mu A)$	$WIB(V)$	$C_J(pF)$
SLCB100CA	100	111	141.0	1.0	179	3.4	5.0	75	50
SLCB100A	100	111	128.0	1.0	162	3.7	5.0	75	50
SLCB110CA	110	122	154.5	1.0	196	3.1	5.0	75	50
SLCB110A	110	122	140.5	1.0	177	3.4	5.0	75	50
SLCB120CA	120	133	169.0	1.0	214	2.8	5.0	75	50
SLCB120A	120	133	153.0	1.0	193	3.1	5.0	75	50
SLCB130CA	130	144	182.5	1.0	231	2.6	5.0	75	50
SLCB130A	130	144	165.5	1.0	209	2.9	5.0	75	50
SLCB150CA	150	167	211.5	1.0	268	2.2	5.0	75	50
SLCB150A	150	167	192.5	1.0	243	2.5	5.0	75	50
SLCB160CA	160	178	226.0	1.0	287	2.1	5.0	75	50
SLCB160A	160	178	205.0	1.0	259	2.3	5.0	75	50
SLCB170CA	170	189	239.5	1.0	304	2.0	5.0	75	50
SLCB170A	170	189	217.5	1.0	275	2.2	5.0	75	50