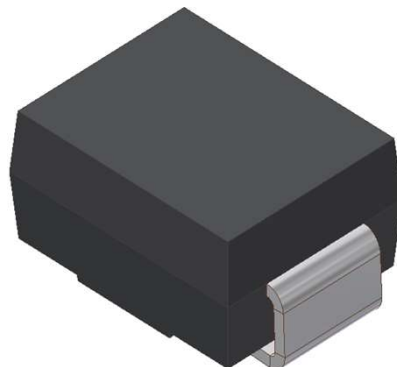


1. FEATURES

- We declare that the material of product compliance with RoHS requirements and Halogen Free.
- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- For surface mounted applications in order to optimize board space
- Low profile package
- Built-in strain relief
- Glass passivated junction
- Low inductance
- Excellent clamping capability
- Repetition Rate (duty cycle):0.01%
- Fast response time: typically less than 1.0ps
- Typical IR less than 1mA above 10V
- High temperature soldering guaranteed: 260°C/10 seconds,
- S- prefix for automotive and other applications requiring unique site and control change requirements; AEC-Q101 qualified and PPAP capable.
- Weight: 0.088g

SMB
(JEDEC DO-214AA)



2.MECHANICAL DATA

Case: Epoxy, Molded

Terminals: Plated leads, solderable per MIL-STD-202, Method 208

Polarity: With Color band denoted cathode

Mounting Position: Any

3. MAXIMUM RATINGS(Ta = 25°C)

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

RATING	VALUE	UNITS
Peak Power Dissipation at T _A =25°C, T _P =1ms(Note 1)	Minimum1000	Watts
Steady State Power Dissipation at T _L =75°C(Note 2)	3.0	Watts
Operating Temperature Range	-55 to +150	°C
Storage Temperature Range	-55 to +150	°C

NOTES:

1. Non-repetitive current pulse, per Fig. 3 and derated above TA=25°C per Fig. 2.

Uni-Directional Part Number	Device marking code	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)
SMB10J5.0A	SMB10J5.0A	5.00	6.40	7.00	10.0	9.2	108.7	800
SMB10J6.0A	SMB10J6.0A	6.00	6.67	7.37	10.0	10.3	97.1	800
SMB10J6.5A	SMB10J6.5A	6.50	7.22	7.98	10.0	11.2	89.3	500
SMB10J7.0A	SMB10J7.0A	7.00	7.78	8.60	10.0	12.0	83.3	200
SMB10J7.5A	SMB10J7.5A	7.50	8.33	9.21	1.0	12.9	77.5	100
SMB10J8.0A	SMB10J8.0A	8.00	8.89	9.83	1.0	13.6	73.5	50
SMB10J8.5A	SMB10J8.5A	8.50	9.44	10.40	1.0	14.4	69.4	20
SMB10J9.0A	SMB10J9.0A	9.0	10.0	11.1	1.0	15.4	64.9	10
SMB10J10A	SMB10J10A	10.0	11.1	12.3	1.0	17.0	58.8	1
SMB10J11A	SMB10J11A	11.0	12.2	13.5	1.0	18.2	54.9	1
SMB10J12A	SMB10J12A	12.0	13.3	14.7	1.0	19.9	50.3	1
SMB10J13A	SMB10J13A	13.0	14.4	15.9	1.0	21.5	46.5	1
SMB10J14A	SMB10J14A	14.0	15.6	17.2	1.0	23.2	43.1	1
SMB10J15A	SMB10J15A	15.0	16.7	18.5	1.0	24.4	41.0	1
SMB10J16A	SMB10J16A	16.0	17.8	19.7	1.0	26.0	38.5	1
SMB10J17A	SMB10J17A	17.0	18.9	20.9	1.0	27.6	36.2	1
SMB10J18A	SMB10J18A	18.0	20.0	22.1	1.0	29.2	34.2	1
SMB10J20A	SMB10J20A	20.0	22.2	24.5	1.0	32.4	30.9	1
SMB10J22A	SMB10J22A	22.0	24.4	26.9	1.0	35.5	28.2	1
SMB10J24A	SMB10J24A	24.0	26.7	29.5	1.0	38.9	25.7	1
SMB10J26A	SMB10J26A	26.0	28.9	31.9	1.0	42.1	23.8	1
SMB10J28A	SMB10J28A	28.0	31.1	34.4	1.0	45.4	22.0	1
SMB10J30A	SMB10J30A	30.0	33.3	36.8	1.0	48.4	20.7	1
SMB10J33A	SMB10J33A	33.0	36.7	40.6	1.0	53.3	18.8	1
SMB10J36A	SMB10J36A	36.0	40.0	44.2	1.0	58.1	17.2	1
SMB10J40A	SMB10J40A	40.0	44.4	49.1	1.0	64.5	15.5	1
SMB10J43A	SMB10J43A	43.0	47.8	52.8	1.0	69.4	14.4	1
SMB10J45A	SMB10J45A	45.0	50.0	55.3	1.0	72.7	13.8	1
SMB10J48A	SMB10J48A	48.0	53.3	58.9	1.0	77.4	12.9	1
SMB10J51A	SMB10J51A	51.0	56.7	62.7	1.0	82.4	12.1	1
SMB10J54A	SMB10J54A	54.0	60.0	66.3	1.0	87.1	11.5	1
SMB10J58A	SMB10J58A	58.0	64.4	71.2	1.0	93.6	10.7	1
SMB10J60A	SMB10J60A	60.0	66.7	73.7	1.0	96.8	10.3	1
SMB10J64A	SMB10J64A	64.0	71.1	78.6	1.0	103	9.7	1
SMB10J70A	SMB10J70A	70.0	77.8	86.0	1.0	113	8.8	1
SMB10J75A	SMB10J75A	75.0	83.3	92.1	1.0	121	8.3	1
SMB10J78A	SMB10J78A	78.0	86.7	95.8	1.0	126	7.9	1
SMB10J80A	SMB10J80A	80.0	88.8	97.6	1.0	129	7.8	1
SMB10J85A	SMB10J85A	85.0	94.4	104.0	1.0	137	7.3	1
SMB10J90A	SMB10J90A	90	100	111	1.0	146	6.8	1
SMB10J100A	SMB10J100A	100	111	123	1.0	162	6.2	1
SMB10J110A	SMB10J110A	110	122	135	1.0	177	5.6	1
SMB10J120A	SMB10J120A	120	133	147	1.0	193	5.2	1
SMB10J130A	SMB10J130A	130	144	159	1.0	209	4.8	1
SMB10J150A	SMB10J150A	150	167	185	1.0	243	4.1	1
SMB10J160A	SMB10J160A	160	178	197	1.0	259	3.9	1
SMB10J170A	SMB10J170A	170	189	209	1.0	275	3.6	1
SMB10J180A	SMB10J180A	180	198	221	1.0	291	3.4	1
SMB10J190A	SMB10J190A	190	209	233	1.0	307	3.3	1
SMB10J200A	SMB10J200A	200	220	246	1.0	324	3.1	1
SMB10J220A	SMB10J220A	220	246	272	1.0	356	2.8	1
SMB10J250A	SMB10J250A	250	279	309	1.0	405	2.5	1

5. ELECTRICAL CHARACTERISTICS CURVES

Fig. 1-Peak Pulse Power Rating Curve

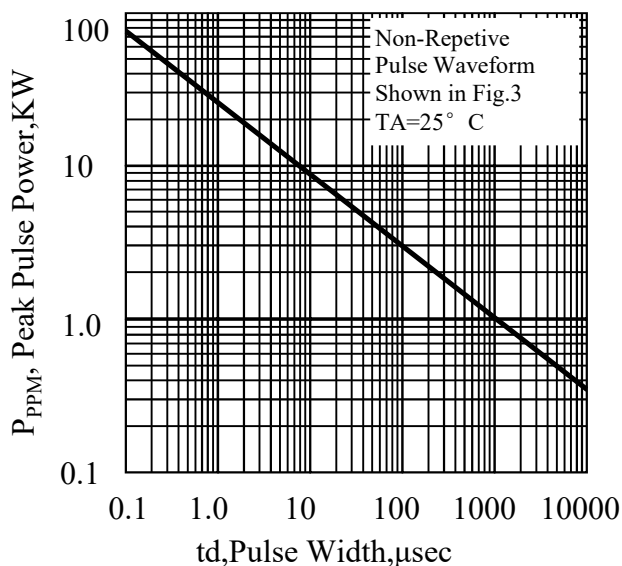


Fig. 2-Pulse Derating Curve

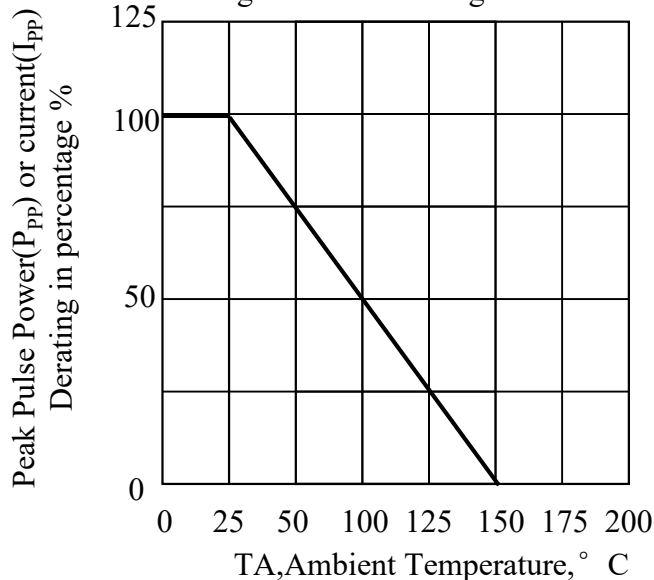


Fig. 3-Pulse Waveform

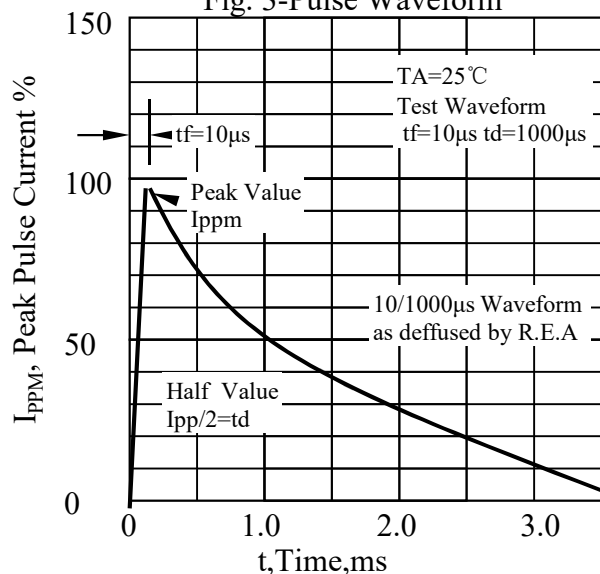
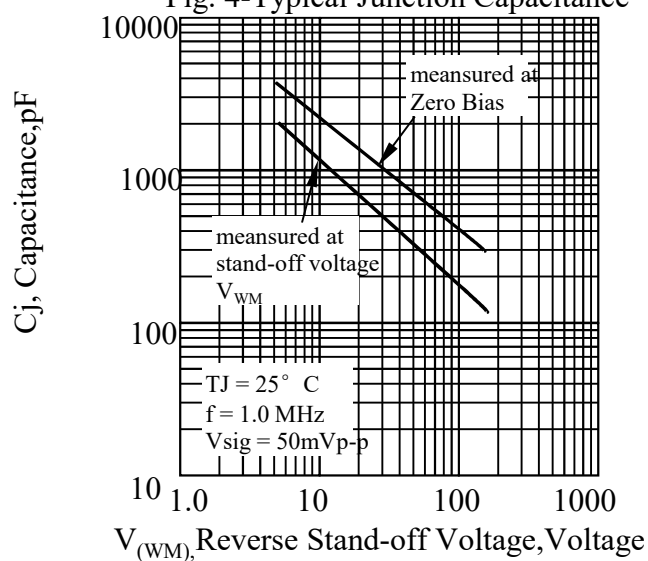
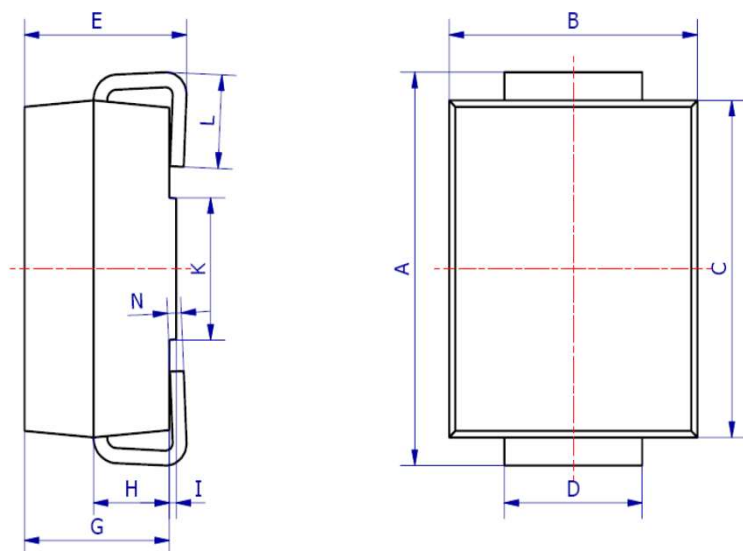


Fig. 4-Typical Junction Capacitance

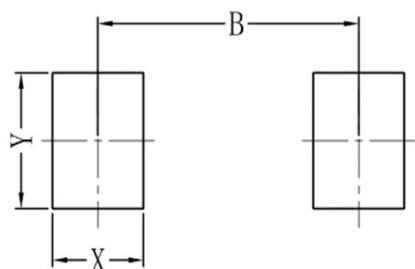


6.OUTLINE AND DIMENSIONS



SMB			
DIM	Min	Max	Typ.
A	5.00	5.45	5.25
B	3.20	4.00	3.60
C	4.30	4.70	4.50
D	1.80	2.20	2.00
E	2.20	2.50	2.35
G	1.90	2.30	2.10
H	0.95	1.25	1.10
I	0.05	0.15	0.10
K	1.70	2.10	1.90
L	0.90	1.50	1.20
N	0.10	0.30	0.20
All Dimensions in mm			

7.SOLDERING FOOTPRINT



SMB	
DIM	(mm)
X	1.60
Y	2.20
B	4.60