

Features

- Glass Passivated Chip
- 2000W Peak Pulse Power Capability with a 10/1000 us Waveformf
- Low Inductance
- For Bidirectional Devices Add "C" To The Suffix of The Part Number: i.e.SMB20J20CA for 5% Tolerance
- Halogen Free. "Green" Device (Note 1)
- Moisture Sensitivity Level 1
- Lead Free Finish/RoHS Compliant (Note 2) ("P" Suffix Designates RoHS Compliant. See Ordering Information)

Mechanical Data

- Terminals: Solderable Per MIL-STD-750, Method 2026
- Polarity: Color Band Denotes Positive End (cathode) Except
 Bidirectiona

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C

Electrical Characteristics @ 25°C Unless Otherwise Specified

Peak Pulse Power Surge Current on 10/1000µs Waveform	I _{PP}	See the Table	Note 3	
Peak Pulse Power Dissipation	P _{PP}	2000W	Note 3	
Power Dissipationon infinite heat sink	P _D	5.0W	T _L = 75°C	
Peak forward surge current	I _{FSM}	100A	Note 4	
Maximum instantaneous forward voltage at 25A for unidirectional only	V _F	5.0V		

Notes: 1.Halogen free "Green"products are defined as those which contain <900ppm bromine,
 <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.</p>

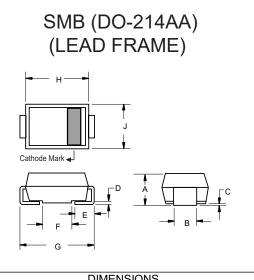
 2.High Temperature Solder Exemption Applied, see EU Directive Annex 7a.
 3.Non-repetitive current pulse, per Fig.3 and derated above T_A=25 °C per Fig.4
 4.Measured on 8.3 ms single half sine-wave or equivalent square wave, duty cycle =4 pulses per minute maximum.

Pin Configuration:



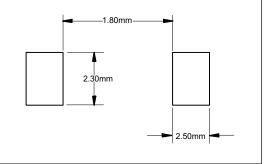






DIMENSIONS						
DIM INC		HES	MM		NOTE	
DIVI	MIN	MAX	MIN	MAX	NOTE	
A	0.079	0.103	2.00	2.62		
В	0.075	0.087	1.91	2.21		
С	0.002	0.008	0.05	0.20		
D	0.006	0.012	0.15	0.31		
E	0.030	0.060	0.76	1.52		
F	0.065	0.091	1.65	2.32		
G	0.200	0.220	5.08	5.59		
Н	0.160	0.191	4.06	4.85		
J	0.130	0.155	3.30	3.94		

Suggested Solder Pad Layout





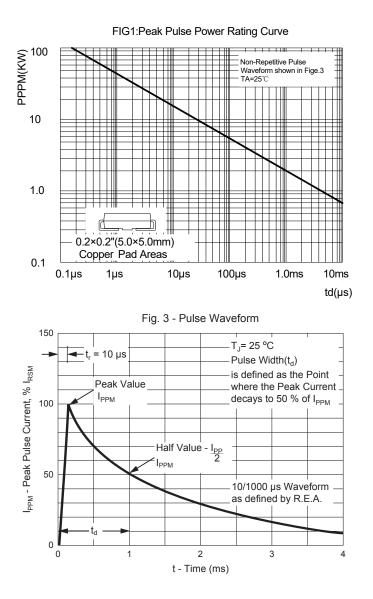
Electrical Characteristics @ 25°C Unless Otherwise Specified

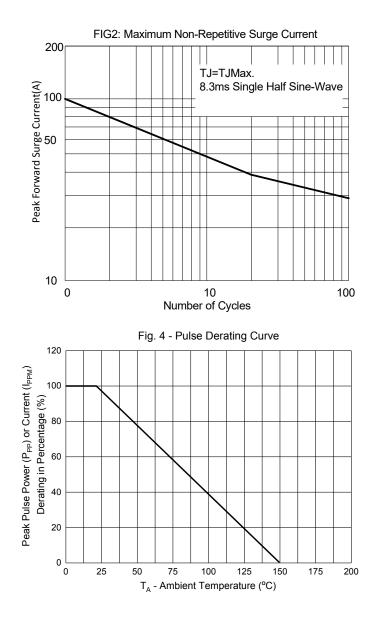
MC Part N		Breako	lown Voltage	ge V _{BR} @I _T Maximur Reverse Leakage I _R @ V _{RW}		Working Peak Reverse Voltage V _{RWM} (V)	Maximum Reverse Surge Current	Maximum Clamping Voltage V _C @I _{PP}	Device Marking Code	
Uni	Bi	Min (V)	Max (V)	I _T (mA)	(μA)	(•)	I _{PP} (A)	(V)	Uni	Bi
SMB20J20A	SMB20J20CA	22.20	24.50	1	1.0	20.0	61.73	32.4	20LV	20BV
SMB20J22A	SMB20J22CA	24.40	26.90	1	1.0	22.0	56.33	35.5	20LX	20BX
SMB20J24A	SMB20J24CA	26.70	29.50	1	1.0	24.0	51.41	38.9	20LZ	20BZ
SMB20J26A	SMB20J26CA	28.90	31.90	1	1.0	26.0	47.51	42.1	20ME	20CE
SMB20J28A	SMB20J28CA	31.10	34.40	1	1.0	28.0	44.05	45.4	20MG	20CG
SMB20J30A	SMB20J30CA	33.30	36.80	1	1.0	30.0	41.32	48.4	20MK	20CK
SMB20J33A	SMB20J33CA	36.70	40.60	1	1.0	33.0	37.52	53.3	20MM	20CM
SMB20J36A	SMB20J36CA	40.00	44.20	1	1.0	36.0	34.43	58.1	20MP	20CP
SMB20J40A	SMB20J40CA	44.40	49.10	1	1.0	40.0	31.01	64.5	20MR	20CR
SMB20J43A	SMB20J43CA	47.80	52.80	1	1.0	43.0	28.81	69.4	20MT	20CT
SMB20J45A	SMB20J45CA	50.00	55.30	1	1.0	45.0	27.51	72.7	20MV	20CV
SMB20J48A	SMB20J48CA	53.30	58.90	1	1.0	48.0	25.84	77.4	20MX	20CX
SMB20J51A	SMB20J51CA	56.70	62.70	1	1.0	51.0	24.27	82.4	20MZ	20CZ
SMB20J54A	SMB20J54CA	60.00	66.30	1	1.0	54.0	22.96	87.1	20NE	20DE
SMB20J58A	SMB20J58CA	64.40	71.20	1	1.0	58.0	21.37	93.6	20NG	20DG

1.Add suffix ' CA ' after part number to specify Bi-directional devices



Curve Characteristics







Ordering Information

Device	Packing
Part Number-TP	Tape&Reel:3Kpcs/Reel

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