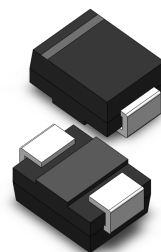


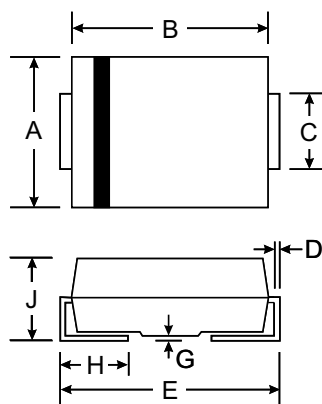
Features

- Low voltage overshoot
- Low on-state voltage
- Does not degrade surge capability after multiple surge events within limit
- Fails short circuit when surged in excess of ratings
- Low Capacitance



Mechanical Data

- Case: SMB/DO-214AA, Molded Plastic
- Terminals: Solder Plated, Solderable per MIL-STD-750, Method 2026
- Polarity: Cathode Band or Cathode Notch
- Marking: Type Number
- 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		

Surge Ratings

Series	2/10 S ¹	8/20 S ¹	10/160 S ¹	10/560 S ¹	10/1000 S ¹	5/310 S ¹	I _{TSM} 50/60 Hz	di/dt
	2/10 S ²	1.2/50 S ²	10/160 S ²	10/560 S ²	10/1000 S ²	10/700 S ²		
	A min	A min	A min	A min	A min	A min	A min	Amps/μs max
C	500	400	200	150	100	150	50	500

Notes:

1. Current waveform in μs
2. Voltage waveform in μs

- Peak pulse current rating (I_{PP}) is repetitive and guaranteed for the life of the product.
- I_{PP} ratings applicable over temperature range of -40 C to +85 C
- The device must initially be in thermal equilibrium with -40°C < T_J < +150°C

Thermal Considerations

Symbol	Parameter	Value	Unit
T _J	Operating Junction Temperature Range	- 40 to + 150	°C
T _S	Storage Temperature Range	- 40 to +150	°C
R _{θJA}	Thermal Resistance: Junction to Ambient	90	°C/W

Part Number	V _{DRM} @I _{DRM} =5 A	V _S @100V/ S	V _T @I _T =2.2A	I _S	I _T	I _H	C ₀ @1MHz	
	V min	V max	V max	mA max	A max	mA min	pF min	pF max
P0080SC	6	25	4	800	2.2	50	25	150
P0300SC	25	40	4	800	2.2	50	15	140
P0640SC	58	77	4	800	2.2	150	40	60
P0720SC	65	88	4	800	2.2	150	35	60
P0900SC	75	98	4	800	2.2	150	25	55
P1100SC	90	130	4	800	2.2	150	30	50
P1300SC	120	160	4	800	2.2	150	25	45
P1500SC	140	180	4	800	2.2	150	25	40
P1800SC	170	220	4	800	2.2	150	25	35
P2000SC	180	220	4	800	2.2	150	20	35
P2300SC	190	260	4	800	2.2	150	25	35
P2600SC	220	300	4	800	2.2	150	20	35
P3100SC	275	350	4	800	2.2	150	20	35
P3500SC	320	400	4	800	2.2	150	20	35
P4000SC	360	460	4	800	2.2	150	20	35
P4500SC	400	540	4	800	2.2	150	20	35
P5000SC	440	600	4	800	2.2	150	20	35

Notes:

- Absolute maximum ratings measured at T_A= 25 C (unless otherwise noted).
- Devices are bi-directional.

Figure 1 - V-I Characteristics

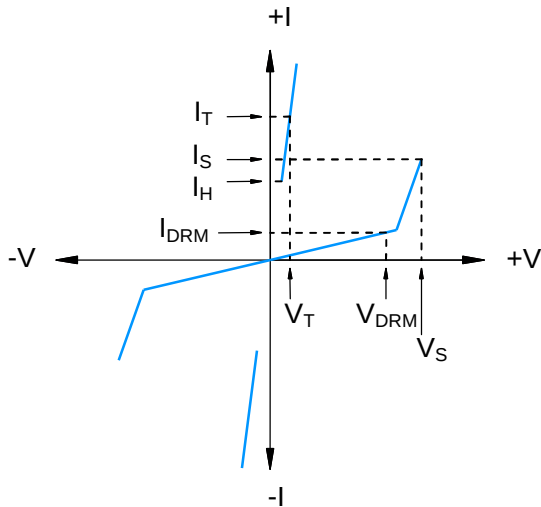


Figure 2 - $t_r \times t_d$ Pulse Waveform

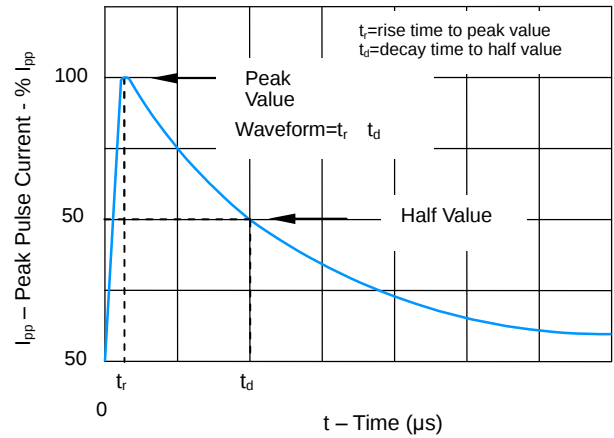


Figure 3 - Normalized V_S Change Versus Junction Temperature

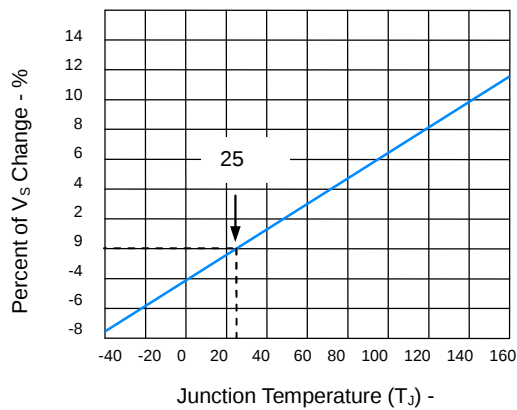


Figure 4 - Normalized DC Holding Current Versus Case Temperature

