

VOLTAGE RANGE: 50 - 1000V

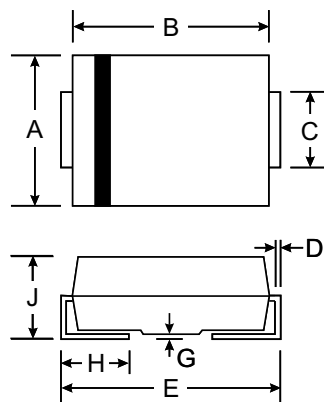
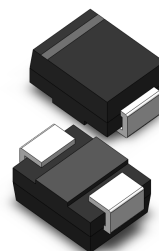
CURRENT: 2.0 A

Features

- High current capability
- High surge current capability
- High reliability
- Low reverse current
- Low forward voltage drop
- Super fast recovery time

Mechanical Data

- Case : SMB(DO-214AB), 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 gram



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 and Electrical Characteristics T_A = 25°C unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	SS2A	SS2B	SS2C	SS2D	SS2E	SS2G	SS2J	SS2K	SS2M	Unit
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	150	200	300	400	600	800	1000	Volts
Maximum RMS Voltage	V _{RMS}	35	70	105	140	210	280	420	560	700	Volts
Maximum DC Blocking Voltage	V _{DC}	50	100	150	200	300	400	600	800	1000	Volts
Maximum Average Forward Current Ta = 55 °C	I _{F(AV)}	2.0									Amps.
Peak Forward Surge Current, 8.3ms Single half sine wave Superimposed on rated load (JEDEC Method)	I _{FSM}	75									Amps.
Maximum Peak Forward Voltage at I _F = 2.0 A.	V _F	0.95				1.4		1.7			Volts
Maximum DC Reverse Current Ta = 25 °C at Rated DC Blocking Voltage Ta = 100 °C	I _R	5									μA
	I _{R(H)}	50									μA
Maximum Reverse Recovery Time (Note 1)	T _{rr}	35									ns
Typical Junction Capacitance (Note 2)	C _J	50									pf
Junction Temperature Range	T _J	- 65 to + 150									°C
Storage Temperature Range	T _{STG}	- 65 to + 150									°C

Notes :

- (1) Reverse Recovery Test Conditions : I_F = 0.5 A, I_R = 1.0 A, I_{rr} = 0.25 A.
- (2) Measured at 1.0 MHz and applied reverse voltage of 4.0 V_{DC}

RATING AND CHARACTERISTIC CURVES (SS2A - SS2M)

FIG.1 - REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM

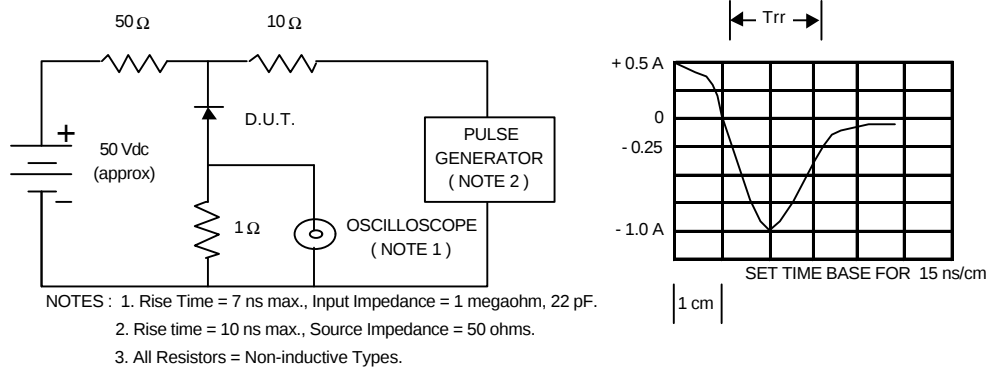


FIG.2 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

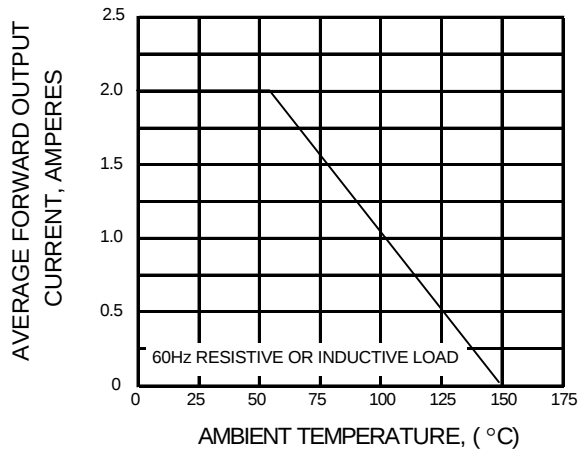


FIG.3 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

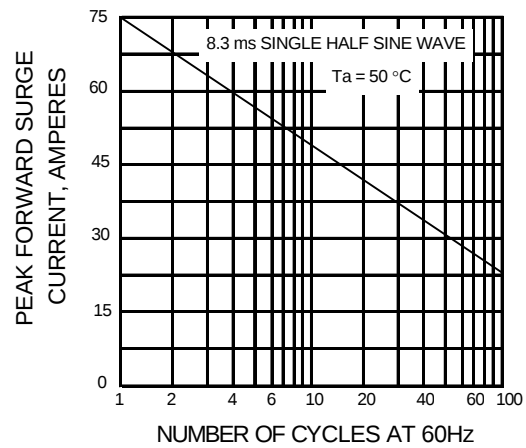


FIG.4 - TYPICAL FORWARD CHARACTERISTICS

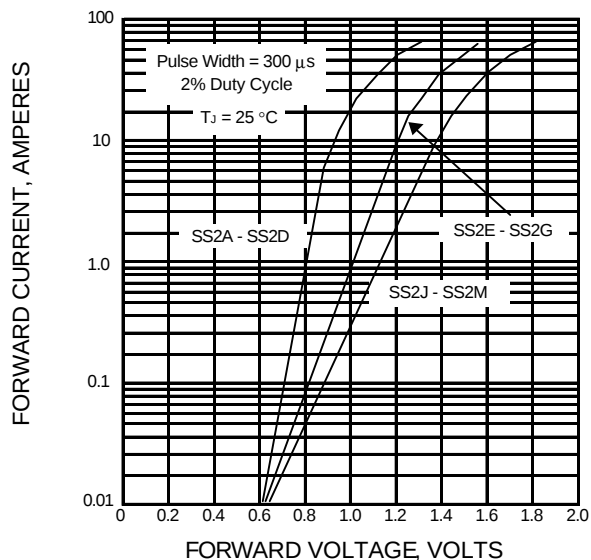


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

