

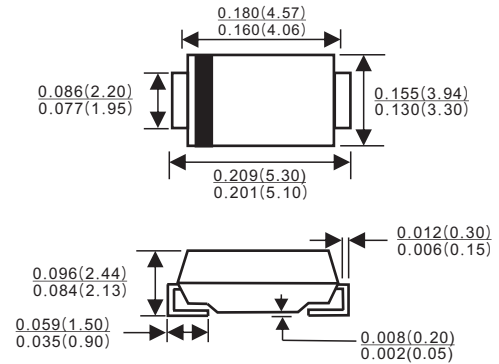
SMB/DO-214AA

FEATURES

- Plastic package has Underwrites Laboratory Flammability Classification 94V-0
- Metal-Silicon Junction
- For surface mount applications
- Guard ring for over voltage protection
- High forward surge current capability
- Super Low forward voltage
- High temperature soldering guaranteed: 260°C/10 seconds at terminals

MECHANICAL DATA

- Case: Transfer molded plastic
- Epoxy: UL94V-0 rate flame retardant
- Polarity: Color band denotes cathode end
- Lead: Plated axial lead, solderable per MIL-STD-750 method 2026
- Mounting position: Surface Mounted
- Weight: 0.007 ounce, 0.25 grams



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

- 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%

		SYMBOLS	ES5A	ES5B	ES5D	ES5G	ES5J	ES5K	ES5M	UNIT
Maximum Repetitive Peak Reverse Voltage		V _{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage		V _{RMS}	35	70	140	280	420	560	720	Volts
Maximum DC Blocking Voltage		V _{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current		I _(AV)	5.0							Amp
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load		I _{FSM}	150							Amps
Maximum Instantaneous Forward Voltage at 5.0A (Note 1)		V _F	0.95			1.25	1.68			Volts
Maximum DC Reverse Current at rated DC Blocking Voltage	T _A = 25℃	I _R	5							u A
	T _A = 100℃		100							
Maximum reverse recovery time(Note 2)		T _{rr}	35							ns
Operating Temperature Range		T _J	-55 to +150							℃
Storage Temperature Range		T _{STG}	-55 to +150							℃

Notes:

- Pulse test: 300μs pulse width, 1% duty cycle
- Test conditions : $I_F=0.5A$, $I_R=1.0A$, $I_{RR}=0.25A$

RATINGS AND CHARACTERISTIC CURVES

