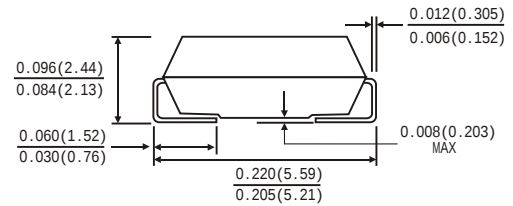
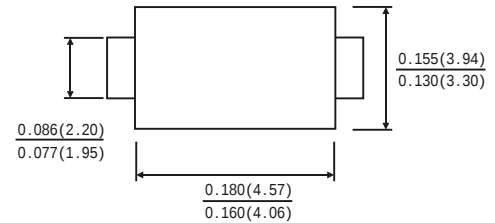


FEATURES

- For Surface Mount Applications
- Easy to pick and place
- Low forward voltage drop, High current capability, High reliability
- High surge current capability
- Super fast recovery time
- Good for use in switching mode circuits
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0



SMB(DO-214AA)



Dimensions in inches and (millimeters)

MECHANICAL DATA

- Case: JEDEC SMB(DO-214AA) molded plastic body
- Terminals: solder plated, solderable per MIL-STD-750, method 2026
- Polarity: color band denotes cathode end
- Weight: 0.003 ounce, 0.093 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Rating 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	ES2A	ES2B	ES2C	ES2D	ES2E	ES2G	Units
Maximum Recurrent Peak Reverse Voltage		VRRM	50	100	150	200	300	400	Volts
Maximum RMS Voltage		VRMS	35	70	105	140	210	280	Volts
Maximum DC Blocking Voltage		VDC	50	100	150	200	300	400	Volts
Maximum Average Forward Rectified Current 0.375"(9.5mm)lead length at TA=55 C °		I(AV)	2.0						Amps
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)		IFSM	50.0						Amps
Maximum Instantaneous Forward Voltage at 2.0 A		VF	0.95					1.25	Volts
Maximum DC Reverse Current at rated DC Blocking Voltage	TA=25°C	IR	5.0						μA
	TA=100°C		50						
Maximum reverse recovery time(Note1)		Trr	35						ns
Typical Junction Capacitance(note2)		Cj	60					30	pF
Operating Junction And Storage Temperature Range		TJ TSTG	-65 to +125 -65 to +150						°C

Note: 1. Test conditions: $I_F=0.5\text{A}$, $I_R=1.0\text{A}$, $I_{RR}=0.25\text{A}$.

2. Measured at 1MHz and applied reverse voltage of 4.0 Volts.

RATINGS AND CHARACTERISTIC CURVES ES2ATHRU ES2G

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

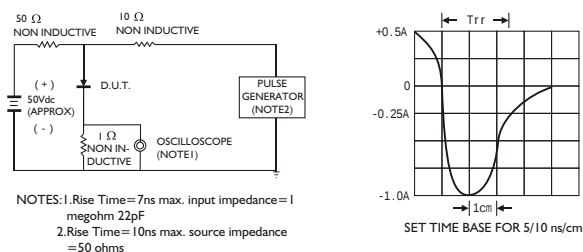


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

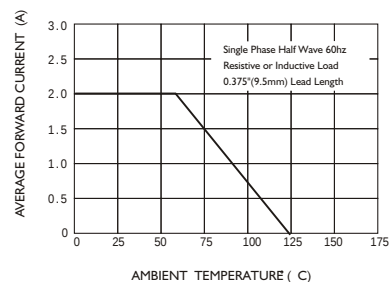


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

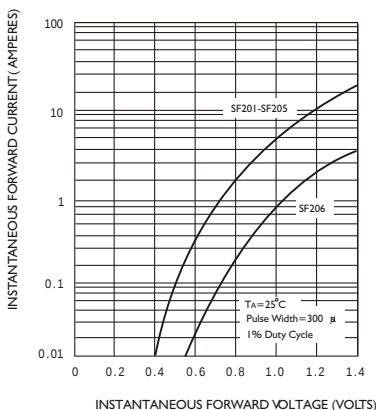


FIG.4-TYPICAL REVERSE CHARACTERISTICS

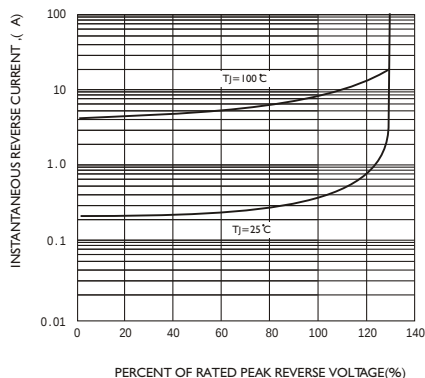


FIG.5-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

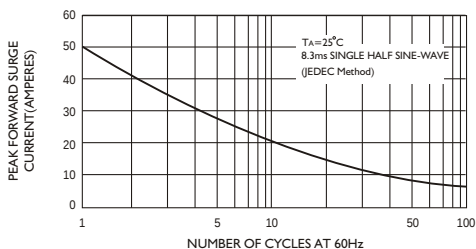


FIG.6-TYPICAL JUNCTION CAPACITANCE

