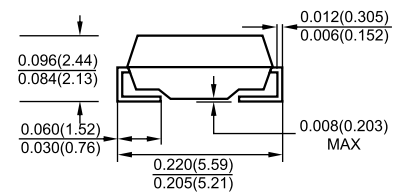
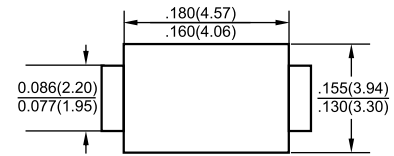



**Features**

- ◇ Plastic package has Underwriters Laboratory Flammability Classification 94V-0 utilizing Flame Retardant Epoxy Molding Compound.
- ◇ Guard ring for overvoltage protection
- ◇ High current capability, low forward voltage drop
- ◇ Low power loss, high efficiency
- ◇ High surge capability

**Mechanical Data**

- ◇ Case: Molded plastic SMB
- ◇ Terminals: Plated leads solderable per MIL-STD-202, Method 208 guaranteed
- ◇ Polarity: Color band denotes cathode end
- ◇ Mounting Position: Any
- ◇ Weight: 0.093 gram
- ◇ Lead Free: For RoHS/Lead Free Version
- ◇ Marking: LGE SS5XX

**SMB**


Dimensions in inches and (millimeters)

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERS**

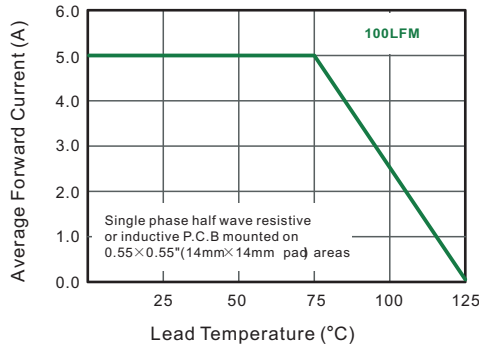
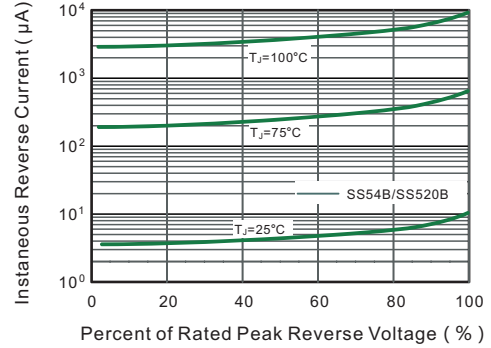
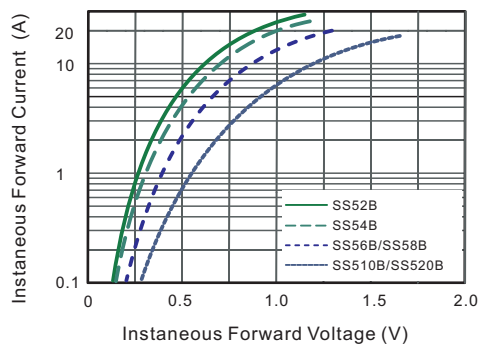
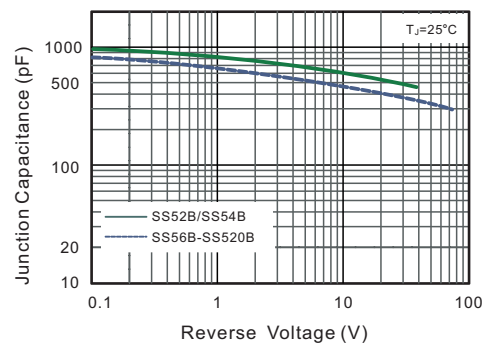
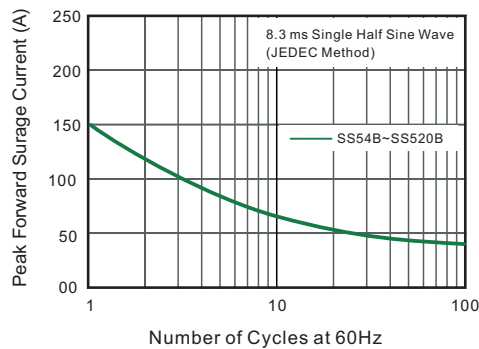
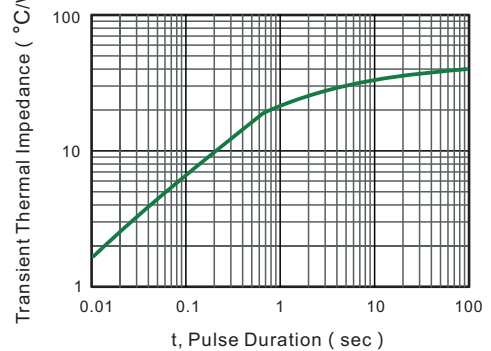
Ratings at 25°C ambient temperature unless otherwise specified.

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

Type Number	Symbol	SS	SS	SS	SS	SS	SS5	SS5	SS5	UNITS
		52	54	55	56	58	10	15	20	
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	20	40	50	60	80	100	150	200	V
Maximum RMS Voltage	$V_{RMS}$	14	28	35	42	56	70	105	140	V
Maximum DC Blocking Voltage	$V_{DC}$	20	40	50	60	80	100	150	200	V
Average Rectified Output Current (Note 1) @ $T_L=100^\circ\text{C}$	$I_{F(AV)}$	5.0								A
Peak forward surge current: 8.3ms single half-sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	175								A
I <sup>2</sup> t Rating for Fusing (t < 8.3ms)	I <sup>2</sup> t	127								A <sup>2</sup> S
Forward Voltage @ $I_F=5.0\text{A}$	$V_{FM}$	0.45	0.55	0.7		0.85		0.85		V
Peak Reverse Current @ $T_A=25^\circ\text{C}$	$I_R$	0.5				0.5				Ma
At Rated DC Blocking Voltage @ $T_A=100^\circ\text{C}$	$I_R$	20				10				
Typical Junction Capacitance (Note 2)	$C_J$	500				350				pF
Typical Thermal Resistance Junction to Ambient (Note 1)	$R_{\theta JA}$	55								°C/W
Operating Temperature Range	$T_J$	-55 to +150								°C
Storage Temperature Range	$T_{STG}$	-55 to +150								°C

Note: 1. Pulse test: 300µs pulse width, 1% duty cycle.

 2. P.C.B. mounted with 0.55"X0.55" (14.0X14.0mm<sup>2</sup>) copper pad areas.

**Fig.1 Forward Current Derating Curve**

**Fig.2 Typical Reverse Characteristics**

**Fig.3 Typical Forward Characteristic**

**Fig.4 Typical Junction Capacitance**

**Fig.5 Maximum Non-Repetitive Peak Forward Surge Current**

**Fig.6- Typical Transient Thermal Impedance**


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