SS52-SS520

5.0AMP. Schottky Barrier Rectifiers

VOLTAGE RANGE:20-200V
CURRENT:5.0A

RoHS COMPLIANT

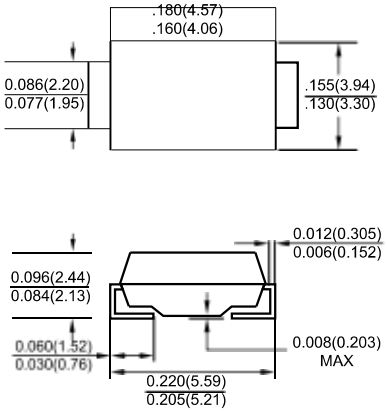
Fetures

- ◇ **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**

Mechanicla Data

- ◇ **Case: Molded plastic SMB**
- ◇ **Terminals: Plated leads solderable per MIL-STD-202,Method 208 guaranteed**
- ◇ **Polarity: Color band dentes 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℃ ambient temperature unless otherwise specified.

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

Type Numger	Symbol	SS 52	SS 54	SS 55	SS 56	SS 58	SS5 10	SS5 15	SS5 20	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	40	50	60	80	100	150	200	V
Maxium RMS Voltage	V_{RMS}	14	28	35	42	56	70	105	140	V
Maxium DC Blocking Voltage	V_{DC}	20	40	50	60	80	100	150	200	V
Average Rectified Output Current (Note 1) @T_L=100℃	$IF_{(AV)}$	5.0								A
Peak forward surge current:8.3ms single half-sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	175								A
I2t Rating for Fusing (t < 8.3ms)	I2t	127								A2S
Forward Voltage @IF= 5.0A	V_{FM}	0.45	0.55	0.7		0.85		0.85		V
Peak Reverse Current @TA=25℃	I_R	0.5				0.5				Ma
At Rated DC Blocking Voltage @TA=100℃	I_R	20				10				
Typical Junction Capacitance (Note 2)	C_J	500			350					pF
Typical Thermal Resistance Junction toAmbient(Note 1)	$R_{\theta JA}$	55								℃/W
Operating Temperature Range	T_J	-55 to +150								℃
Storage Temperature Range	T_{STG}	-55 to +150								℃

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

2.P.C.B.mounted with 0.55"X0.55"(14.0X14.0mm2)copper pad areas.

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RoHS COMPLIANT

Fig . 1 Forward Current Derating Curve

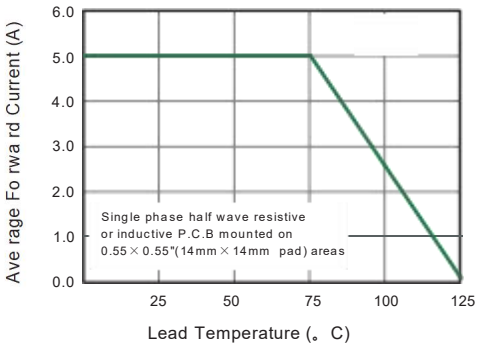

Fig .2 Typical Reverse Characteristics

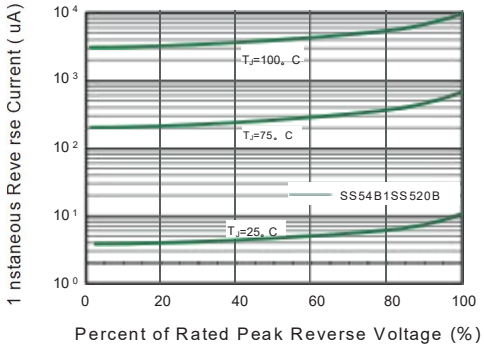

Fig .3 Typical Forward Characteristic

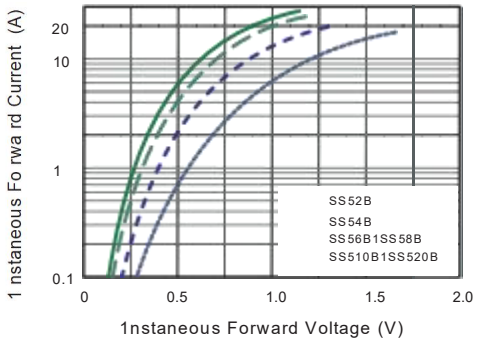

Fig .4 Typical Junction Capacitance

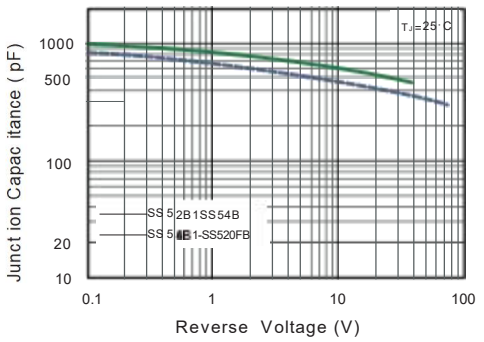

Fig .5 Maximum Non- Repetitive Peak Forward Surage Current

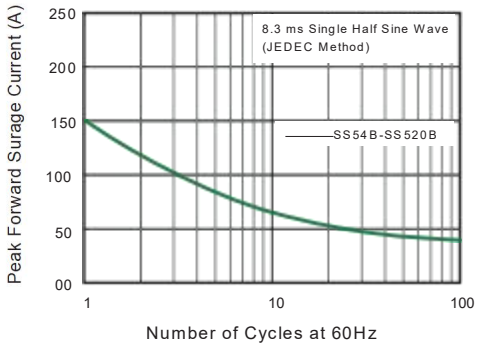

Fig .6- Typical Transient Thermal 1mpedance