



Features

- ✧ For surface mounted application
- ✧ Glass passivated junction chip.
- ✧ Low forward voltage drop
- ✧ High current capability
- ✧ Easy pick and place
- ✧ High surge current capability
- ✧ Plastic material used carries Underwriters Laboratory Classification 94V-0
- ✧ High temperature soldering: 260°C / 10 seconds at terminals

Mechanical Data

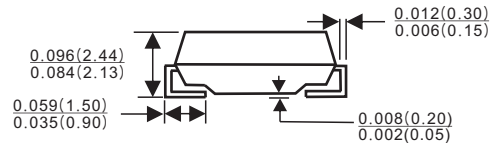
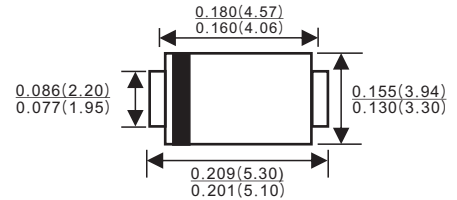
- ✧ Case: Molded plastic
- ✧ Terminals: Pure tin plated, lead free.
- ✧ Polarity: Indicated by cathode band
- ✧ Weight: 0.093 gram

Marking Information



LGE: Lu Guang Electronic
XXXX: marking code (S3T-S3Y)

SMB/DO-214AA



Dimensions in inches and(millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25 °C ambient temperature unless otherwise specified.
 Single phase, half wave, 60 Hz, resistive or inductive load.
 For capacitive load, derate current by 20%

Type Number	Symbol	S3TB	S3WB	S3XB	S3YB	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	1300	1600	1800	2000	V
Maximum RMS Voltage	V_{RMS}	760	820	880	940	V
Maximum DC Blocking Voltage	V_{DC}	1300	1600	1800	2000	V
Maximum Average Forward Rectified Current @ $T_L = 75^\circ C$	$I_{(AV)}$	3.0				A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	80				A
Maximum Instantaneous Forward Voltage @ 3.0A	V_F	1.15				V
Maximum DC Reverse Current @ $T_A = 25^\circ C$ at Rated DC Blocking Voltage @ $T_A = 125^\circ C$	I_R	10 250				μA μA
Typical Reverse Recovery Time (Note 1)	T_{rr}	1.5				μS
Typical Junction Capacitance (Note 2)	C_j	40				pF
Typical Thermal Resistance (Note 3)	$R_{\theta JL}$	10				$^\circ C/W$
Operating Temperature Range	T_J	-55 to +150				$^\circ C$
Storage Temperature Range	T_{STG}	-55 to +150				$^\circ C$

- Notes:
- Reverse Recovery Test Conditions: $I_F = 0.5A$, $I_R = 1.0A$, $I_{RR} = 0.25A$
 - Measured at 1 MHz and Applied $V_R = 4.0$ Volts
 - Measured on P.C. Board with 0.4" x 0.4" (10mm x 10mm) Copper Pad Areas.

RATINGS AND CHARACTERISTIC CURVES (S3AB THRU S3MB)

FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

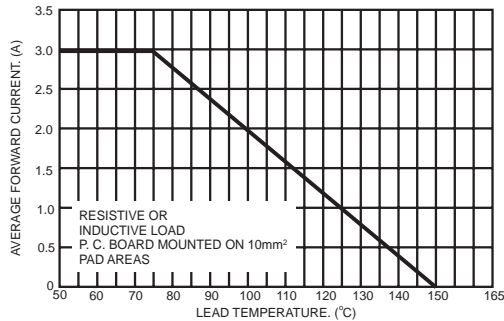


FIG.2- TYPICAL REVERSE CHARACTERISTICS

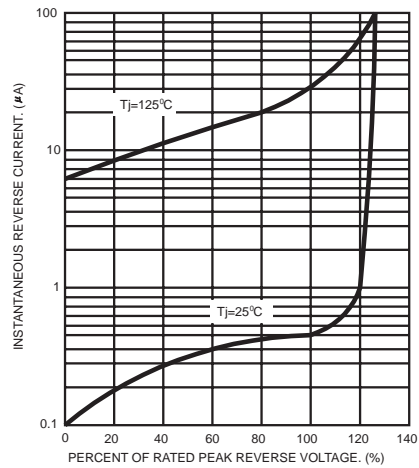


FIG.3- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

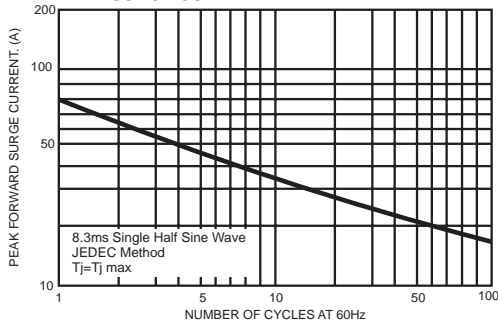


FIG.5- TYPICAL FORWARD CHARACTERISTICS

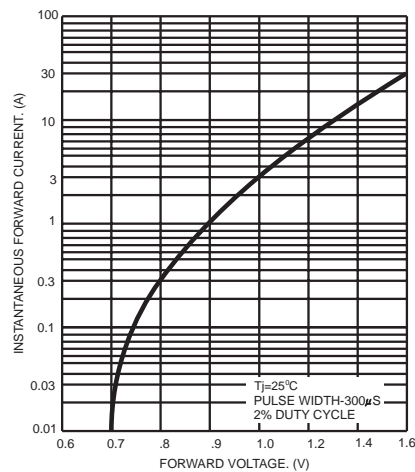


FIG.4- TYPICAL JUNCTION CAPACITANCE

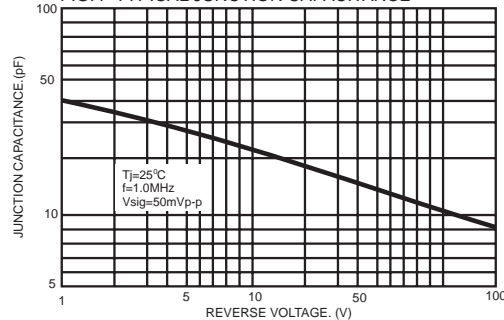
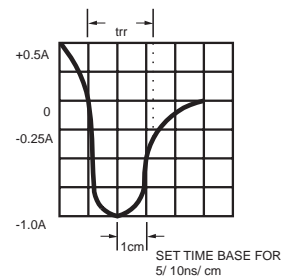
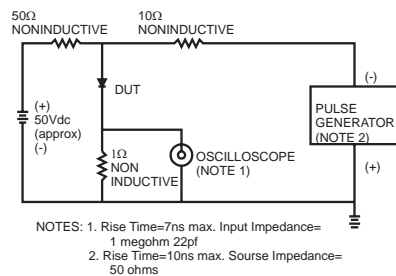


FIG.6- REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM



PACKAGE	SPQ/PCS	CARTON SPQ/PCS	CARTON SIZE/CM	CARTON GW/KG	CARTON NW/KG
SMB	3000/REEL	48000	36X35.8X36.5	12.00	11.00

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