

■ Features

- Glass passivated chip
- Low reverse leakage current
- High surge current capability
- Reliable low cost construction utilizing molded plastic technique

■ Mechanical Data

- Case: SGBJ
- Polarity symbols being marked on body
- Molding compound meets UL 94V-0 flammability rating
- RoHS-compliant, Solder plated, solderable per MIL-STD-750, Method 2026



■ Marking

- SGBJ25xx(08~16)

■ Maximum Ratings @ Ta = 25°C unless otherwise noted

PARAMETER	SYMBOL	UNIT	SGBJ2508	SGBJ2510	SGBJ2512	SGBJ2514	SGBJ2516
Repetitive peak reverse voltage	V_{RRM}	V	800	1000	1200	1400	1600
Maximum RMS voltage	V_{RMS}	V	560	700	840	980	1120
Maximum DC blocking Voltage	V_{DC}	V	800	1000	1200	1400	1600
Maximum average output current@60Hz sine wave, resistance load	$I_{F(AV)}$	A	25.0				
Peak forward surge current 8.3 ms single half sine wave superimposed on rated load	I_{FSM}	A	450				
Peak forward surge current 1.0 ms single half sine wave superimposed on rated load		A	900				
Current squared time @1ms≤t<8.3ms Tj=25°C, Rating of per diode	I^2t	A ² S	840.38				
Isolation Breakdown Voltage AC 50Hz/60Hz; R.M.S; 1min	V_{ISO}	V	2500				
Mounting Torque (Recommended torque:0.65 N·m)	M_s	N.m	0.8				
Storage temperature	T_{stg}	°C	-55~+150				
Junction temperature	T_j	°C	-55~+150				

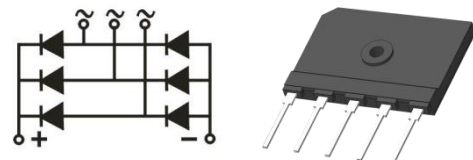
■ Electrical Characteristics @ Tj = 25°C unless otherwise noted

PARAMETER	TEST CONDITIONS	SYMBOL	UNIT	SGBJ2508	SGBJ2510	SGBJ2512	SGBJ2514	SGBJ2516
Maximum instantaneous forward voltage	$I_F=12.5A$	V_F	V	1.1				
Maximum DC reverse current at rated DC blocking voltage	$V_R=V_{DC}, T_j=25^{\circ}C$	I_R	μA	5				
	$V_R=V_{DC}, T_j=100^{\circ}C$	I_R		500				

Reverse Voltage
800-1600 V

Forward Current
25.0 A max

Appearance Image



■ Characteristic Curve (Typical)

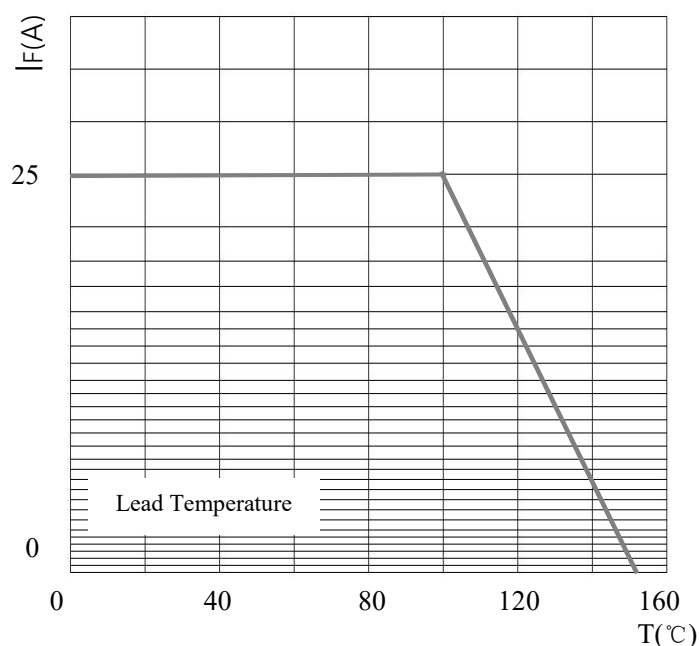


FIG1. Derating Curve For Output Rectified Current

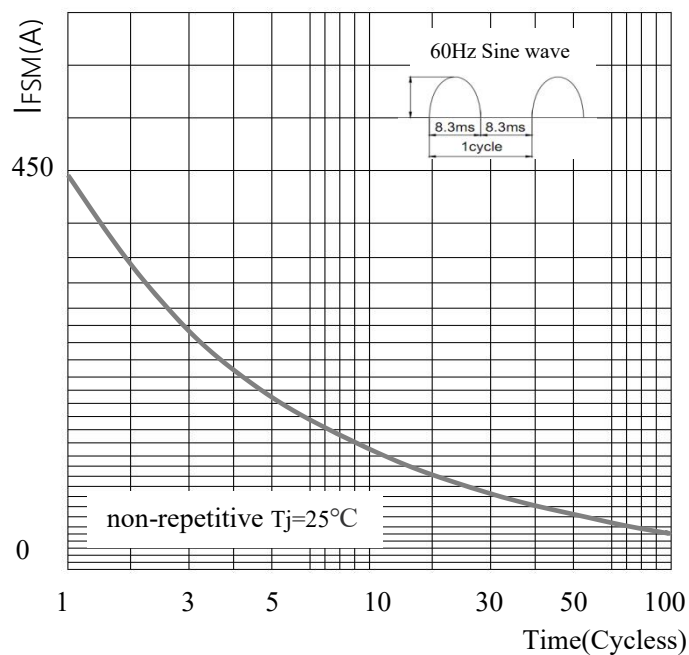


FIG2. Surge Forward Current Capability

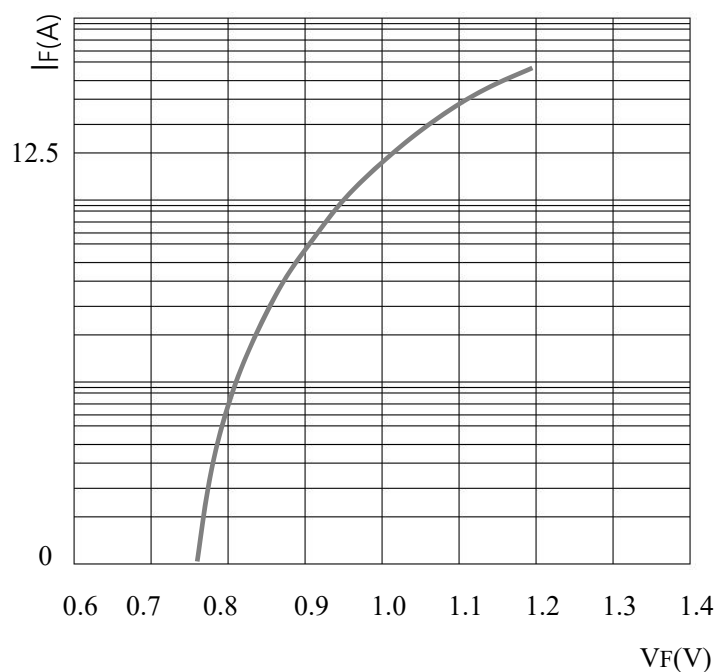


FIG3. Typical Forward Characteristics

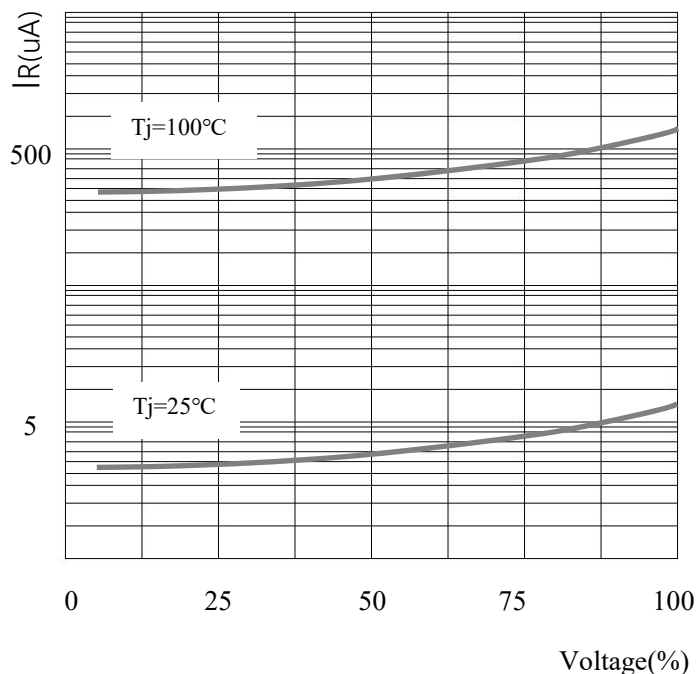
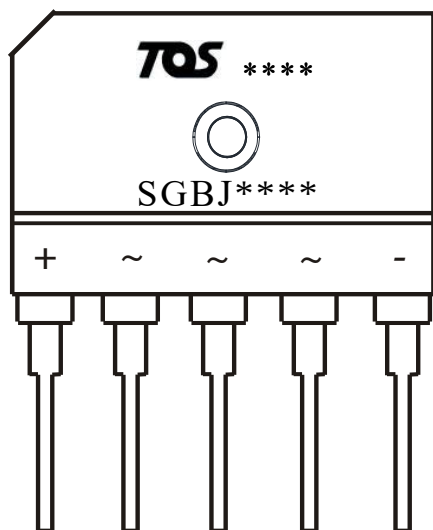


FIG4. Typical Reverse Characteristics

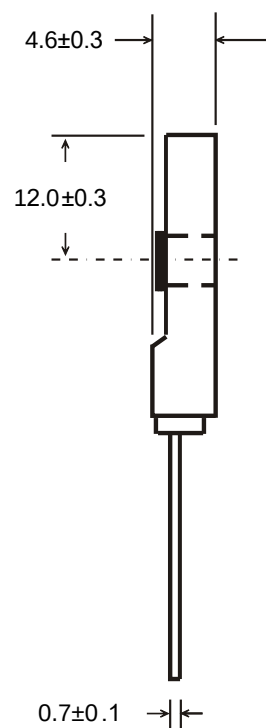
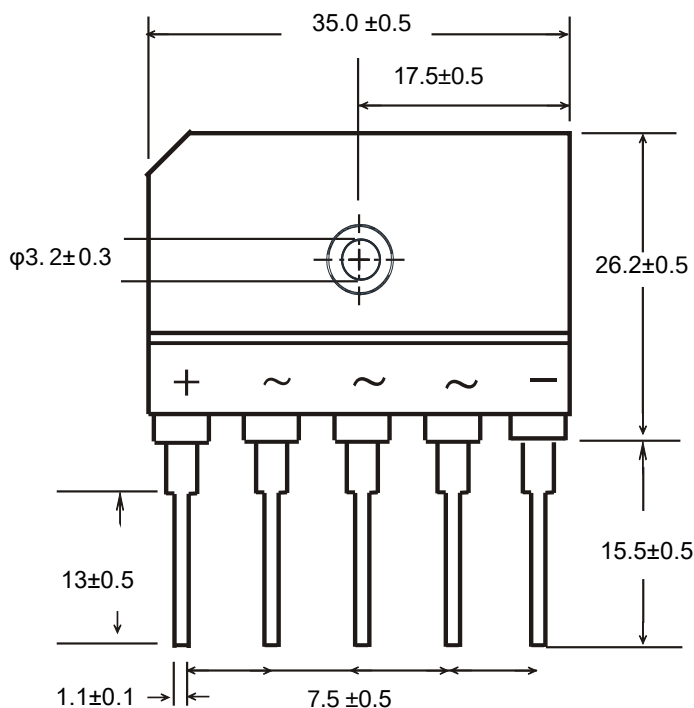
■ Marking and packet information



SGBJ**** : Marking Model **TOS** : Brand Logo

Packaging information	
每盒	200PCS
每箱	1200PCS
脚长定制	支持

■ SGBJ Package outline dimensions



Dimensions in millimeters

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