

■ Features

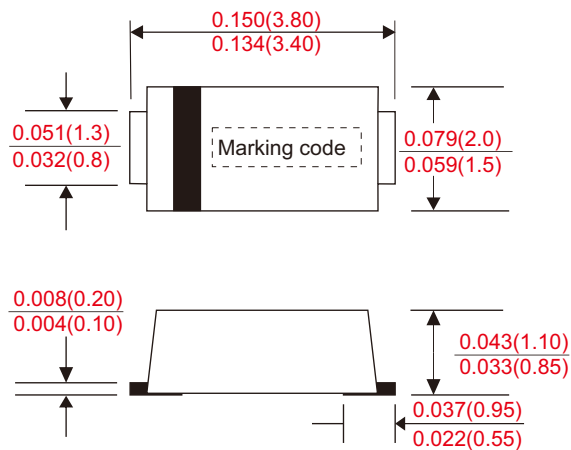
- Low profile surface mounted application in order to optimize board space.
- Low power loss, high efficiency.
- High current capability, low forward voltage drop.
- Ultra high-speed switching.
- Silicon epitaxial planar chip, metal silicon junction.
- Lead free in compliance with EU RoHS.

■ Mechanical data

- Epoxy:UL94-V0 rated flame retardant
- Case : Molded plastic, SOD-123SL
- Terminals : Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity : Indicated by cathode band
- Weight : Approximated 0.018 gram

■ Outline

SOD-123SL



Dimensions in inches and (millimeters)

■ Maximum ratings and electrical characteristics

Rating at 25°C ambient temperature unless otherwise specified.

Parameter	Conditions	Symbol	MIN.	TYP.	MAX.	UNIT
Forward Rectified Output Current		I_O			2.0	A
Forward Surge Current	8.3ms single half sine-wave superimposed on rate load (JEDEC method)	I_{FSM}			50	A
Peak Reverse Current @ 25°C	40V,60V	I_R			0.1	mA
	100V,150V,200V				0.05	
At Rated DC Blocking Voltage @ 100°C	40V,60V	I_R			10	
	100V,150V,200V				5	
Storage temperature Range		T_{STG}	-50		+150	°C

Symbol	Max. repetitive peak reverse voltage V _{RRM} (V)	Max. RMS voltage V _{RMS} (V)	Max. DC blocking voltage V _R (V)	Max. forward voltage @2A, T _A = 25°C V _F (V)	Operating temperature T _J (°C)
B240WG-SL	40	28	40	0.55	-50 ~ +150
B260WG-SL	60	42	60	0.70	
B2100WG-SL	100	70	100	0.85	
B2150WG-SL	150	105	150	0.92	
B2200WG-SL	200	140	200		

Rating and characteristic curves

FIG. 1- FORWARD CURRENT DERATING CURVE

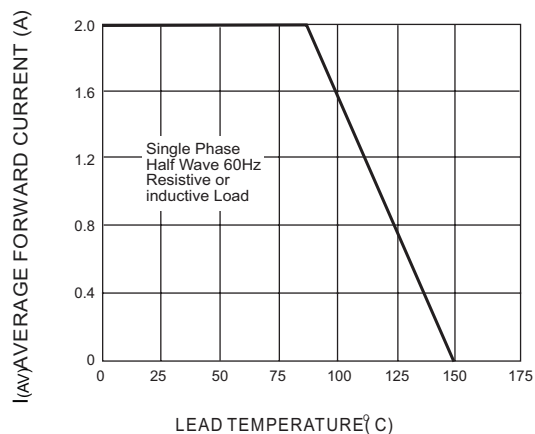


FIG. 2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

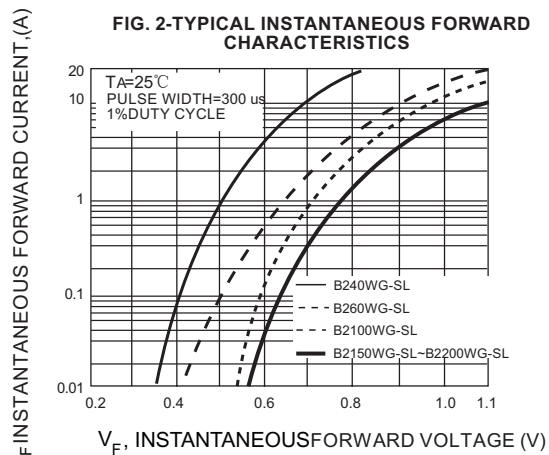


FIG. 3-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

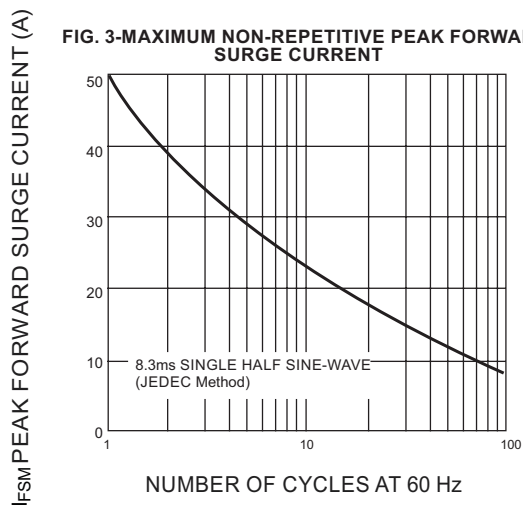


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

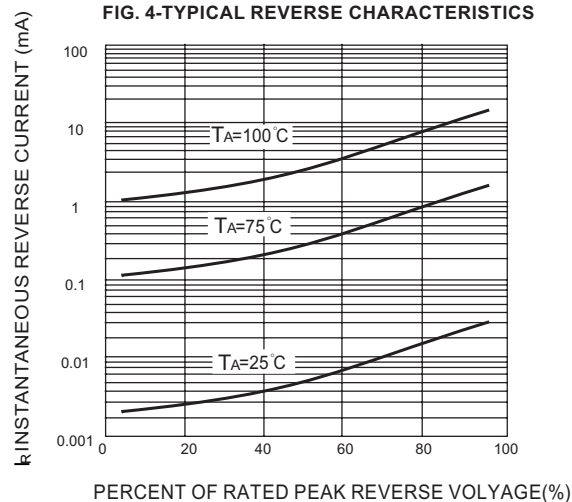
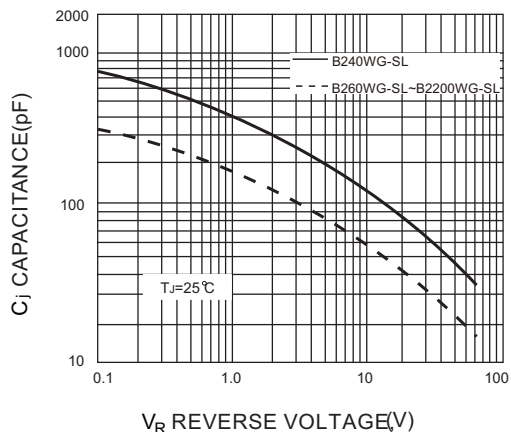
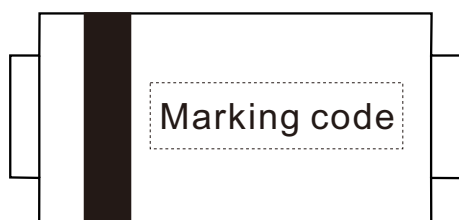


FIG. 5-TYPICAL JUNCTION CAPACITANCE



■ Marking Information



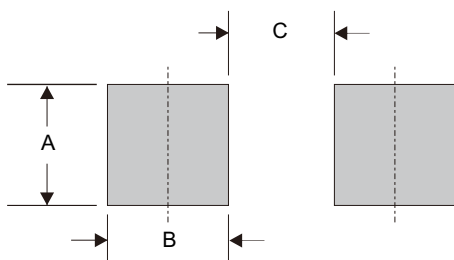
	Part number	Marking Code
Halogen free	B240WG-SL	D24
	B260WG-SL	D26
	B2100WG-SL	D210
	B2150WG-SL	D215
	B2200WG-SL	D220

■ Ordering/Packing information

	Part number	Case	Q'TY/Reel (PCS)	Q'TY/Box (PCS)	Q'TY/Carton (PCS)
Halogen free	B240WG-SL	SOD-123SL	3,000	15,000	180,000

Notes : 1. For packaging details please reference our website at <http://www.citcorp.com.tw/tchinese/products/index.php>

■ SOD-123SL foot print



A	B	C
0.048 (1.22)	0.045 (1.15)	0.076 (1.95)

Dimensions in inches and (millimeters)

- CITC reserves the right to make changes to this document and its products and specifications at any time without notice.
- Customers should obtain and confirm the latest product information and specifications before final design, purchase or use.
- CITC makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does CITC assume any liability for application assistance or customer product design.
- CITC does not warrant or accept any liability with products which are purchased or used for any unintended or unauthorized application.
- No license is granted by implication or otherwise under any intellectual property rights of CITC.
- CITC products are not authorized for use as critical components in life support devices or systems without express written approval of CITC.