DEC

STANDARD RECTIFIER

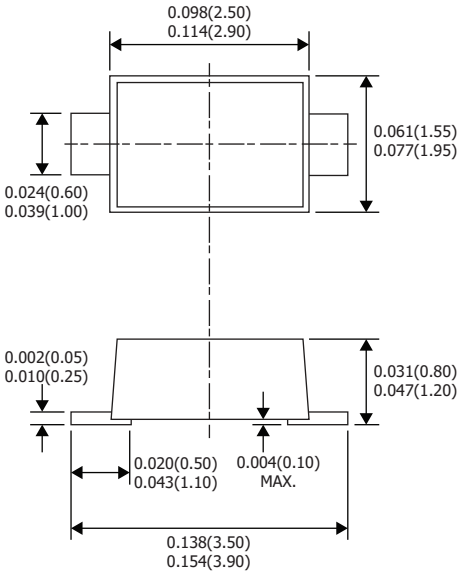
GS1500FL THRU GS1510FL

CURRENT 1.5 A
VOLTAGE 50 to 1000 V

Features

- Low profile space
- Ideal for automated placement
- Glass passivated chip junctions
- Low leakage current
- Low leakage current
- High forward surge capability
- High temperature soldering: 260℃/10 seconds at terminals

SOD-123FL



Dimensions in inches and (millimeters)

Mechanical Data

- Case : JEDEC SOD-123FL molded plastic
- Terminals : Solder plated, solderable per J-STD-002B and JESD22-B102D
- Polarity : Laser band denotes cathode end
- Weight : 0.017gram

Maximum Ratings And Thermal Characteristics

(Ratings at 25℃ ambient temperature unless otherwise specified, Single phase, half wave 60Hz, resistive or inductive load. For capacitive load, derate by 20%)

Items	Symbols	GS 1500FL	GS 1501FL	GS 1502FL	GS 1504FL	GS 1506FL	GS 1508FL	GS 1510FL	Units
Maximum repetitive peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum average forward rectified current	$I_{F(AV)}$	1.5							A
Peak forward surge current : 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	40							A
Typical thermal resistance to ambient(Note 1)	$R_{\theta JC}$	150							℃/W
Operating junction and storage temperature range	T_J, T_{STG}	-55 to +150							℃

Note 1: Mounted on P.C.B with 0.036 x 0.06" (0.9 x 1.5mm) copper pad areas.

Electrical Characteristics

(Ratings at 25℃ ambient temperature unless otherwise specified, Single phase, half wave 60Hz, resistive or inductive load. For capacitive load, derate by 20%)

Items	Test conditions		Symbols	Min	Typ	Max	Units
Instantaneous forward voltage (Note 2)	I_F=1.5A		V_F	-	0.95	1.10	V
Reverse current	V_R=V_{DC}	T_J=25℃	I_R	-	-	5	μA
		T_J=100℃				50	

Note 2: Pulse test : 300μs pulse width, 1% duty cycle.

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RATINGS AND CHARACTERISTIC CURVES GS1500FL THRU GS1510FL

FIG.1-FORWARD CURRENT DERATING CURVE

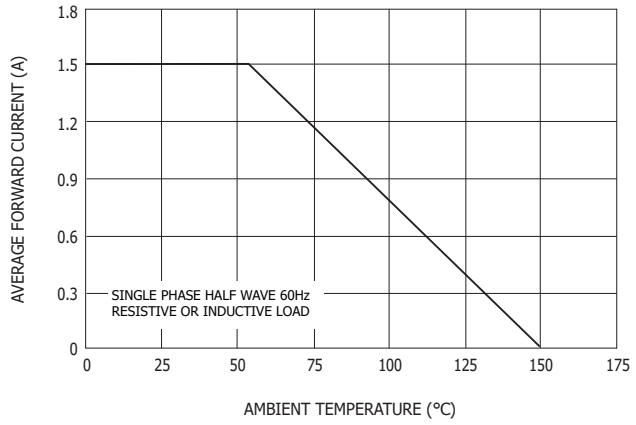


FIG.2-MAXIMUM NUN-REPETITIVE PEAK FORWARD SURGE CURRENT

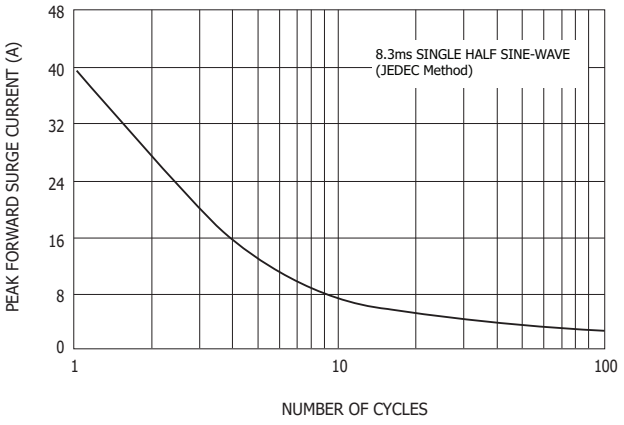


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARCTERISTICS

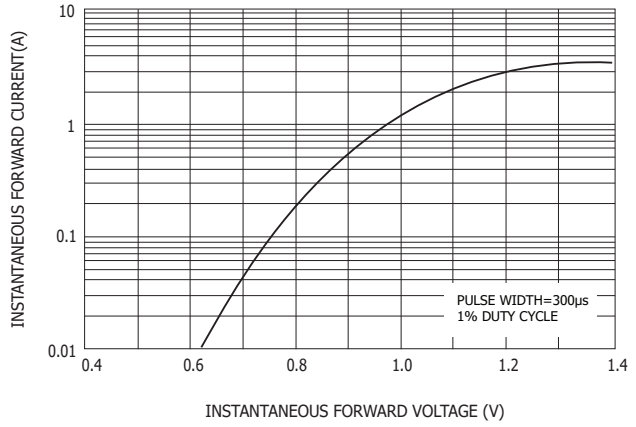
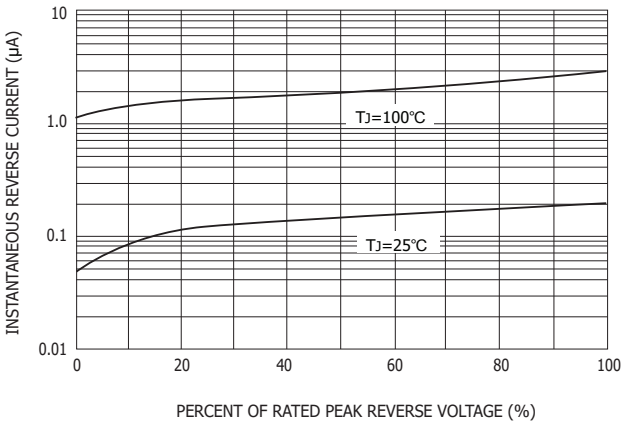


FIG.4-TYPICAL REVERSE CHARACTERISTICS



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