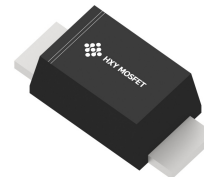




Features

- Average Forward Current: $I_{F(AV)} = 1A$
- Polarity: Color band denotes cathode



Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
BAS40H	SOD-123FL	K14	3000

SOD-123FL



Maximum Ratings ($T_a = 25^\circ\text{C}$ unless otherwise noted)

Single phase, half wave, 60Hz resistive or inductive load, for capacitive load, derate by 20 %

Type Number	Limit	Units
Maximum Recurrent Peak Reverse Voltage	40	V
Maximum RMS Voltage	28	V
Maximum DC Blocking Voltage	40	V
Maximum Average Forward Rectified Current See Fig. 1	1.0	A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	30	A
Maximum Instantaneous Forward Voltage at 1.0A	0.55	V
Maximum DC Reverse Current $T_a = 25^\circ\text{C}$	0.2	mA
at Rated DC Blocking Voltage $T_a = 100^\circ\text{C}$	10	mA
Typical Junction Capacitance (Note1)	110	pF
Typical Thermal Resistance R_{qJA} (Note 2)	80	$^\circ\text{C/W}$
Operating Temperature Range T_j	$-65 \sim +125$	$^\circ\text{C}$
Storage Temperature Range T_{STG}	$-65 \sim +150$	$^\circ\text{C}$

Notes:

1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
2. Thermal Resistance Junction to Ambient.



Typical Characteristics

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

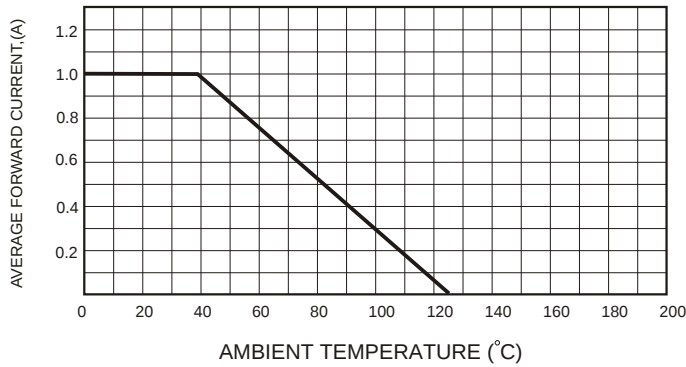


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

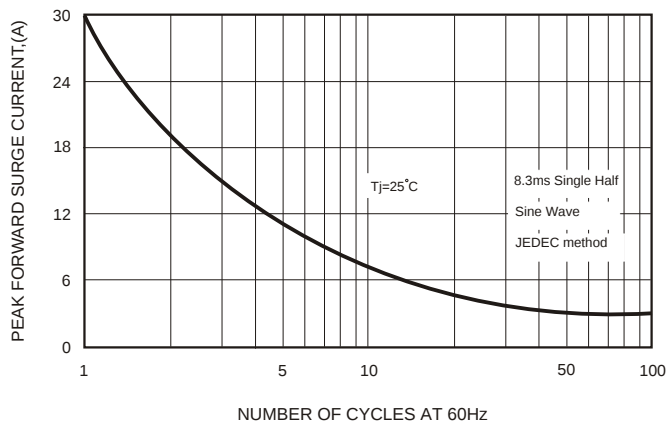


FIG.4-TYPICAL JUNCTION CAPACITANCE

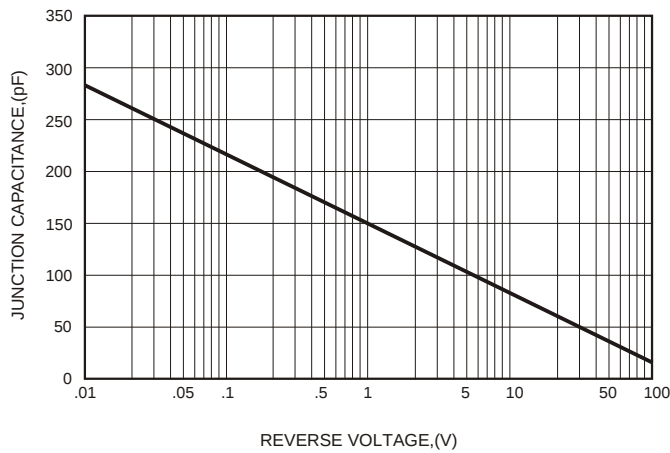


FIG.2-TYPICAL FORWARD CHARACTERISTICS

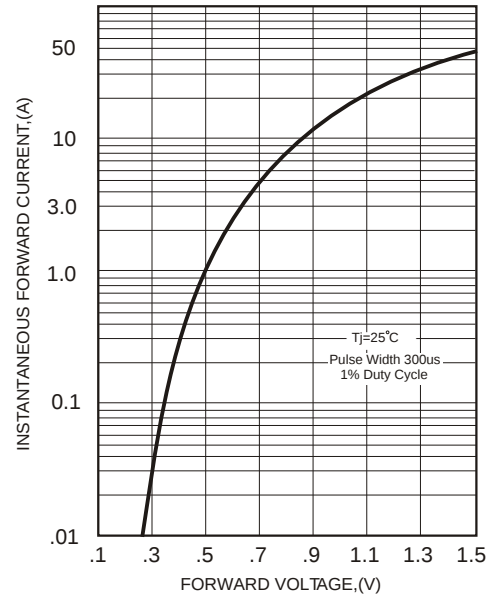
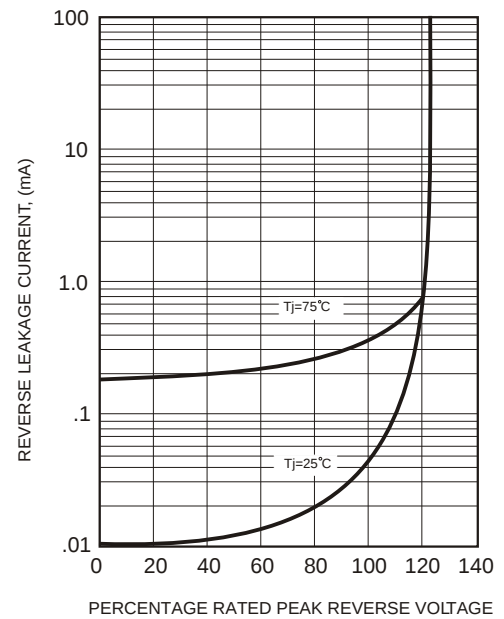
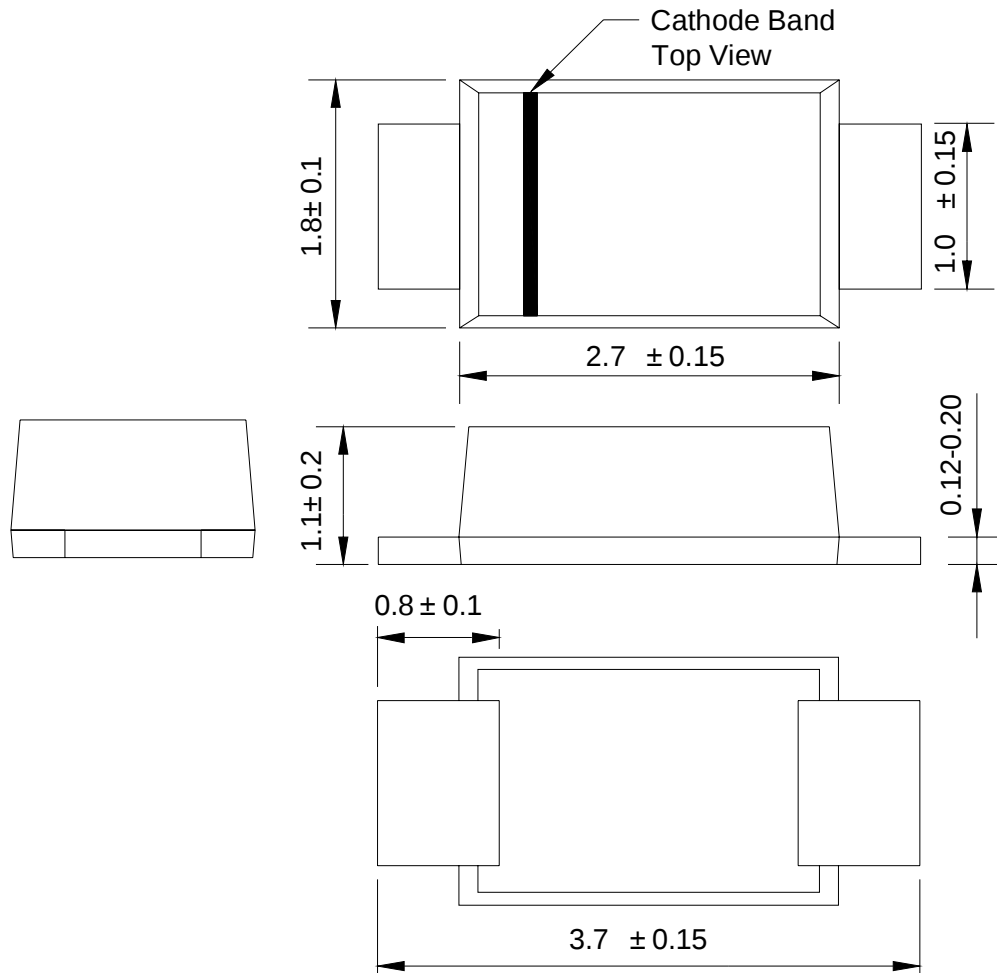


FIG.5 - TYPICAL REVERSE CHARACTERISTICS





Package Outline Dimensions
SOD-123FL





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