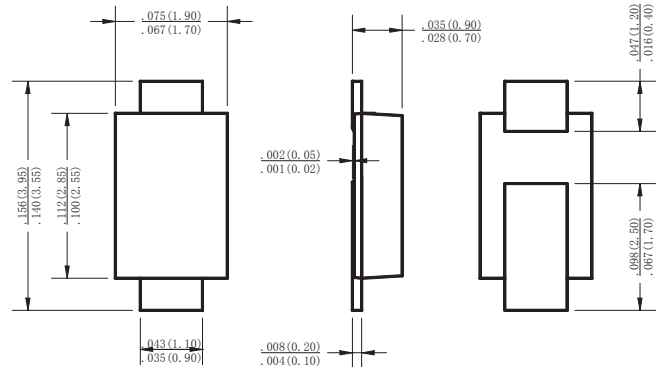


FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- For surface mounted applications
- Low profile package
- Built-in strain relief
- Metal to silicon rectifier. majority carrier conduction
- Low power loss,high efficiency
- High surge capacity
- High current capacity ,low VF
- For use in low voltage high frequency inverters, free wheeling, and polarity protection applications.
- High temperature soldering guaranteed: 260°C /10 seconds at terminals
- Pb free product at available : 99% Sn above meet RoHS environment substance directive request
- AEC-Q101 qualified

SOD-123HE Unit:inch(mm)



Dimensions in inches and (millimeters)

MECHANICAL DATA

- Case: SOD-123HE molded plastic
- Terminals:Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes positive end (cathode)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.
Resistive or inductive load.

	SYMBOLS	S32HE	S33HE	S34HE	S35HE	S36HE	S38HE	S310HE	S315HE	S320HE	UNITS
Marking Code		2L	3L	4L	5L	6L	8L	10L	15L	20L	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	20	30	40	50	60	80	100	150	200	V
Maximum RMS Voltage	VRMS	14	21	28	35	42	56	70	105	140	V
Maximum DC Blocking Voltage	VDC	20	30	40	50	60	80	100	150	200	V
Maximum Average Forward Rectified Current at TL (See figure 1)	I(AV)	3.0									A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	65.0									A
Maximum Instantaneous Forward Voltage at 3.0A (Note 1)	VF	0.50			0.70		0.85		0.90		V
Maximum DC Reverse Current (Note 1) Ta= 25°C at Rated DC Blocking Voltage Ta=100°C	IR	0.5				10.0					mA
Maximum Thermal Resistance(Note 2)	RθJL	15.0									°C/W
Operating Temperature Range	TJ	-55 to +125				-55 to +150					°C
Storage Temperature Range	TSTG	-55 to +150									°C

NOTES:

- A.Pulse Test with PW =300µsec, 2% Duty Cycle.
- B.Mounted on P.C. Board with 5.0mm2 (.013mm thick) copper pad areas.

DEVICE CHARACTERISTICS

S32HE-A THRU S320HE-A

