

■ Features

- Low power losses, high efficiency
- Low forward voltage drop, low reverse current
- Compliant with RoHS requirements, lead-free, halogen-free

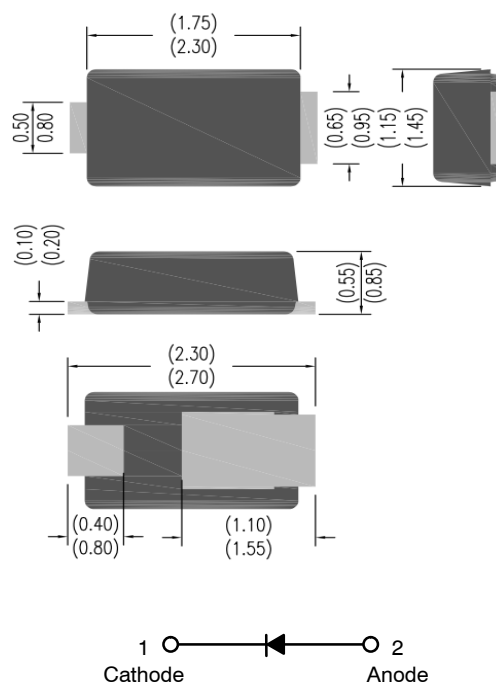
■ MECHANICAL DATA

- Package: SOD-323HE
- Terminals: Tin plated leads, solderable per
- Polarity: Cathode line denotes the cathode end

■ APPLICATIONS

- DC/DC converters
- Freewheeling
- low voltage high frequency inverters
- polarity protection applications

SOD-323HE



■ Maximum Ratings (Ta=25℃ Unless otherwise specified)

Parameter	Symbol	Limits	Unit
Maximum repetitive peak reverse voltage	VRRM	40	V
Maximum RMS voltage	VRMS	28	V
Maximum DC blocking voltage	VDC	40	V
Maximum average forward rectified current at TC = 75℃	IF(AV)	2	A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	30	A
Typical thermal resistance (Note 1)	RθJA	210	℃/W
	RθJL	70	
Operating junction temperature range	TJ	-55 ~ +125	℃
storage temperature range	TSTG	-55 ~ +150	℃

■ Electrical Characteristics (Ta=25℃ Unless otherwise specified)

Characteristic	Symbol	Min.	Typ.	Max.	Unit
Maximum instantaneous forward (IF = 1.0 A, TJ = 25℃)	VF	-	-	0.43	V
(IF = 2.0 A, TJ = 25℃)		-	-	0.5	
Maximum DC reverse current at rated DC blocking voltage TA = 25℃	IR	-	-	0.1	mA
TJ = 125℃		-	-	20	
Typical junction capacitance at 4.0V, 1MHz	CJ	-	65	-	pF



■ ELECTRICAL CHARACTERISTICS CURVES

