

## ■ Features

- Low power losses, high efficiency
- Low forward voltage drop, low reverse current
- Compliant with RoHS requirements, lead-free, halogen-free
- Meets MSL level 1, per J-STD-020, LF maximum peak of 260 °C

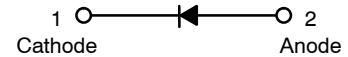
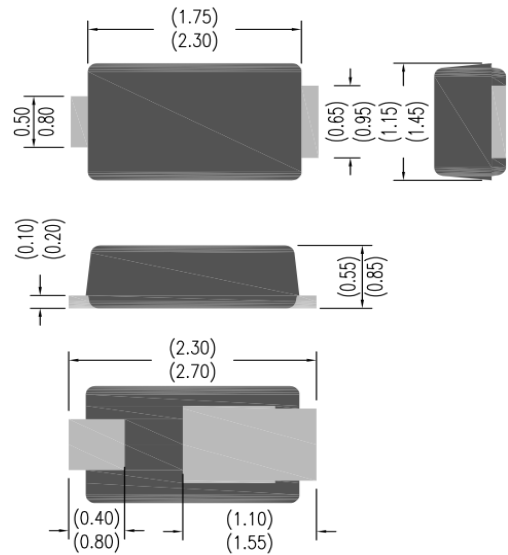
## ■ MECHANICAL DATA

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

## ■ APPLICATIONS

- DC/DC converters

### SOD-323HE



## ■ ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

PARAMETER	SYMBOL	LIMITS	UNIT
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	40	V
Maximum Average Rectified Forward Current	I <sub>O</sub>	1.0	A
Peak Forward Surge Current (Half Sine Wave , 1 cycle , non-repetitive )	I <sub>FSM</sub>	22	A
Operating Junction Temperature Range	T <sub>JW</sub>	-40 to +150	°C
Storage Temperature Range	T <sub>STG</sub>	-40 to +150	°C

## ■ ELECTRICAL CHARACTERISTICS ( Ta=25°C)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN.	TYP.	MAX.	UNITS
Forward Voltage	V <sub>F1</sub>	I <sub>F</sub> =0.7A	-	0.48	-	V
	V <sub>F2</sub>	I <sub>F</sub> =1.0A	-	0.53	0.58	V
Reverse Current	I <sub>R1</sub>	V <sub>R</sub> =5V	-	0.5	-	μA
	I <sub>R2</sub>	V <sub>R</sub> =40V	-	-	100	μA
Typical Thermal Resistance	Note1 R <sub>θJA</sub>	Junction to Ambient	-	-	220	°C/W
Typical Thermal Resistance	Note2 R <sub>θJL</sub>	Junction to Lead	-	-	250	°C/W
Typical Thermal Resistance	Note1 R <sub>θJL</sub>	Junction to Lead	-	-	50	°C/W

Note : 1. Mounted on P.C Board with (15mm x 50mm) copper pad areas.

2. Mounted on a FR4 PCB, single-sided copper, mini pad.

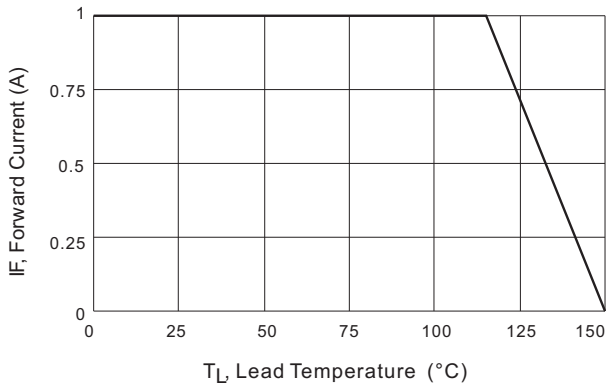


Fig.1 Forward Current Derating Curve

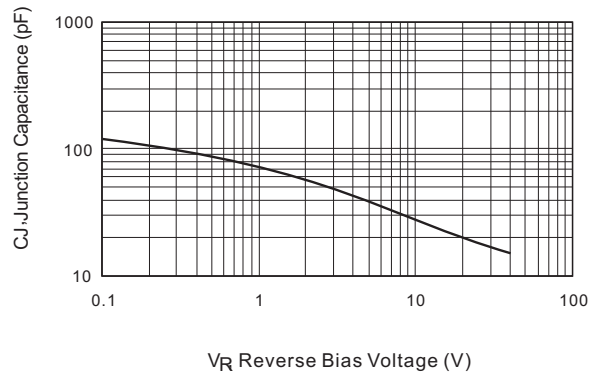


Fig.2 Typical Junction Capacitance

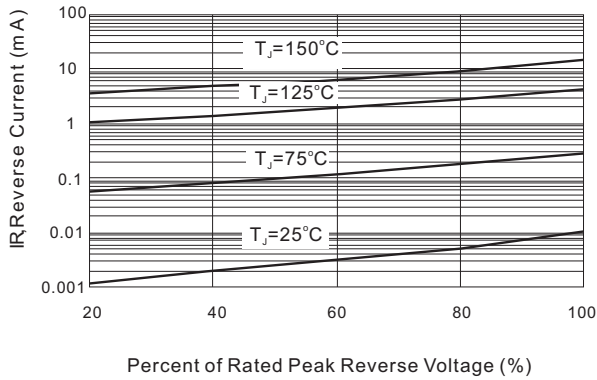


Fig.3 Typical Reverse Characteristics

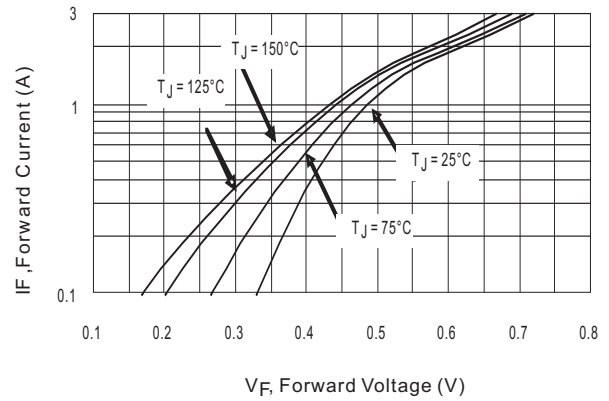


Fig.4 Typical Forward Characteristics

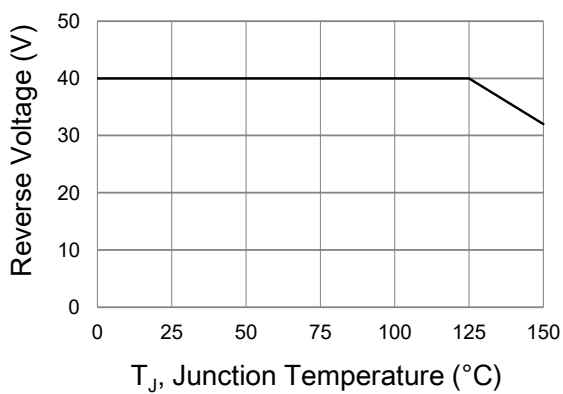


Fig.5 Operating Temperature Derating Curve

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