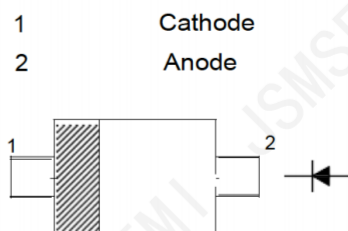


## Features

- Low forward voltage drop



## Maximum Ratings and Electrical Characteristics, Single Diode @T<sub>A</sub>=25°C

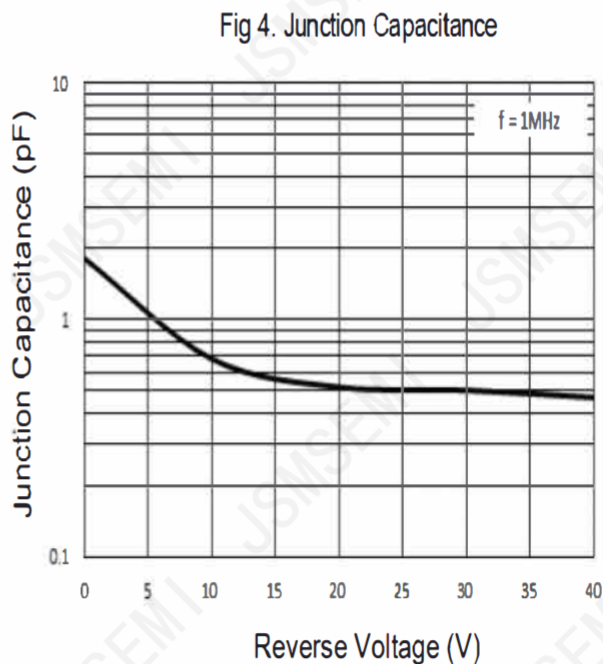
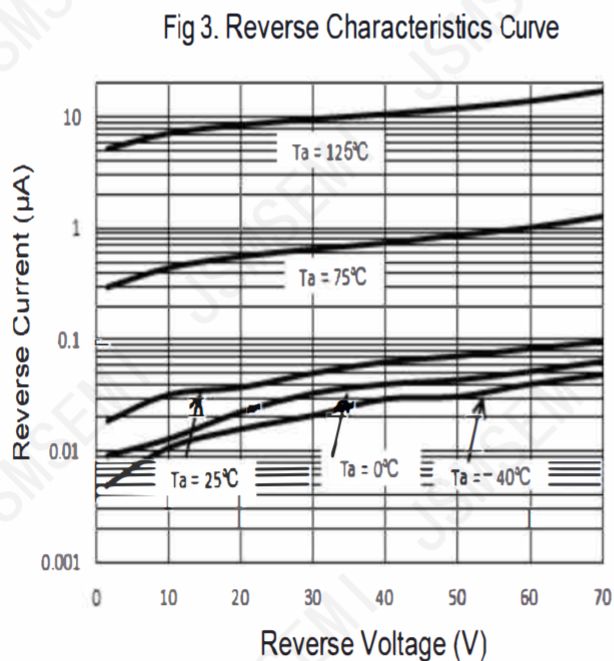
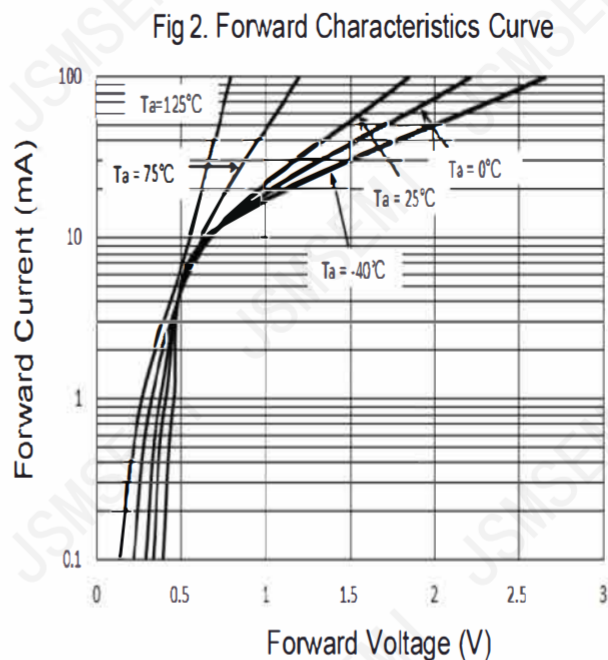
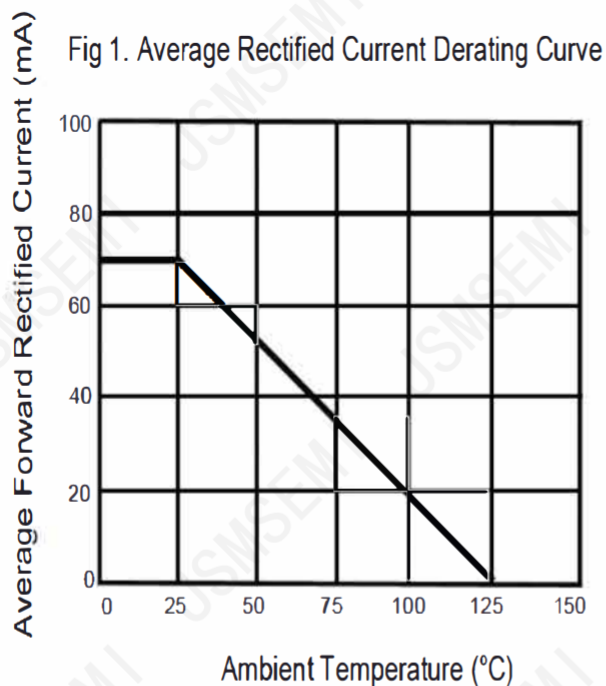
Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	70	V
Continuous Forward Current	I <sub>F</sub>	70	mA
Surge Non-Repetitive Forward Current (t <sub>p</sub> = 10 ms)	I <sub>FSM</sub>	1	A
Total Power Dissipation	P <sub>tot</sub>	230	mW
Thermal Resistance Junction to Ambient <sup>1)</sup>	R <sub>thJA</sub>	550	°C/W
Junction Temperature	T <sub>J</sub>	150	°C
Storage Temperature Range	T <sub>stg</sub>	- 65 to + 150	°C

<sup>1)</sup> Mounted on epoxy board, with recommended pad layout.

## Electrical Ratings @T<sub>A</sub>=25°C

Parameter	Symbol	Min.	Max.	Unit
Reverse Breakdown Voltage at I <sub>R</sub> = 10 μA	V <sub>BR</sub>	70	-	V
Forward Voltage at I <sub>F</sub> = 1 mA	V <sub>F</sub>	-	410	mV
Reverse Current at V <sub>R</sub> = 50 V	I <sub>R</sub>	-	100	nA
Diode Capacitance at V <sub>R</sub> = 0 V, f = 1 MHz	C <sub>tot</sub>	-	2	pF

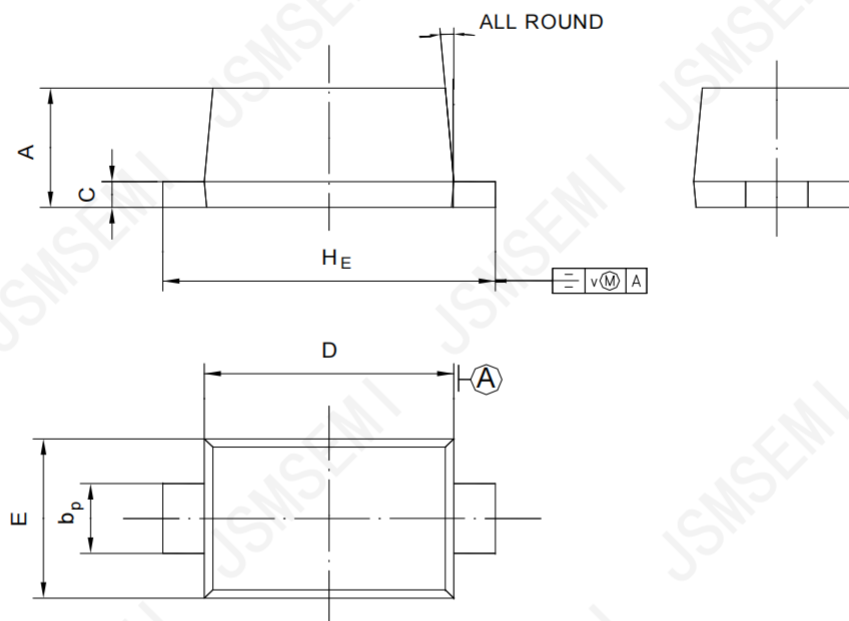
## Electrical Characteristics Curves



## PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

### SOD-523



UNIT	A	b <sub>p</sub>	C	D	E	H <sub>E</sub>	V	∠
mm	0.68 0.58	0.4 0.3	0.135 0.100	1.25 1.15	0.85 0.75	1.7 1.5	0.1	5°

## Revision History

Rev.	Change	Date
V1.0	Initial version	2/23/2024

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