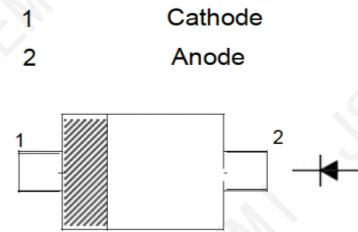


Features

- Low forward voltage drop



Simplified outline SOD-523 and symbol

Maximum Ratings and Electrical Characteristics, Single Diode @ $T_A=25^\circ\text{C}$

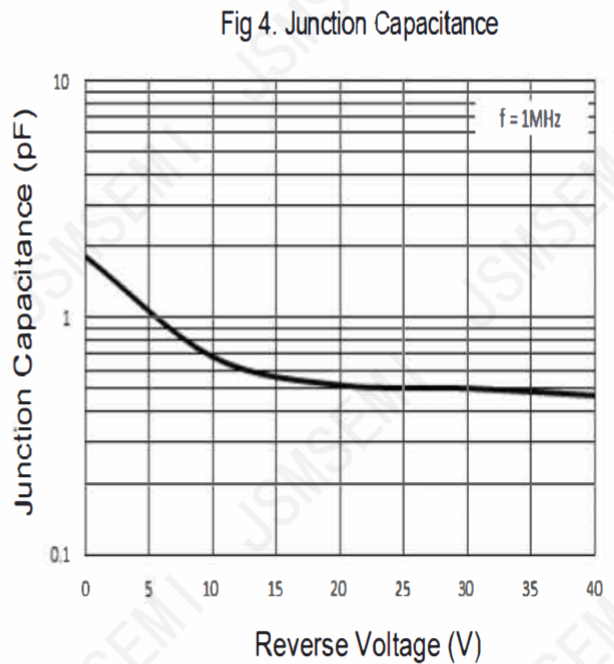
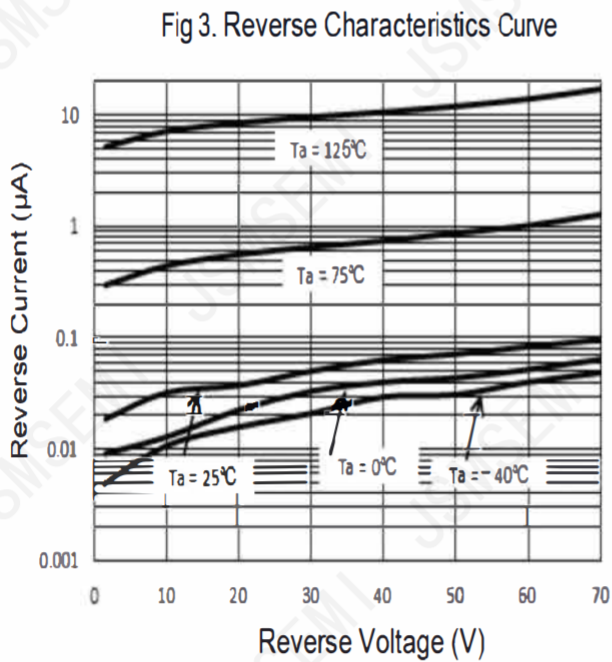
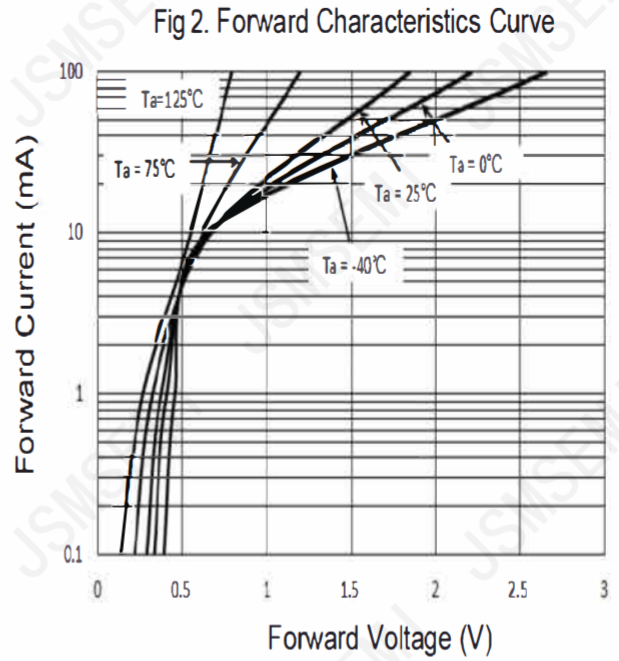
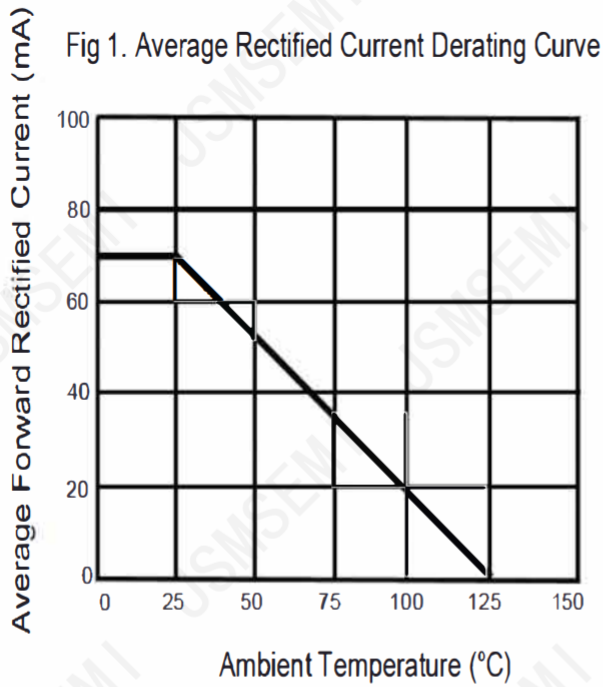
Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	V_{RRM}	70	V
Continuous Forward Current	I_F	70	mA
Surge Non-Repetitive Forward Current ($t_p = 10 \text{ ms}$)	I_{FSM}	1	A
Total Power Dissipation	P_{tot}	230	mW
Thermal Resistance Junction to Ambient ¹⁾	R_{thJA}	550	$^\circ\text{C/W}$
Junction Temperature	T_J	150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 65 to + 150	$^\circ\text{C}$

¹⁾ Mounted on epoxy board, with recommended pad layout.

Electrical Ratings @ $T_A=25^\circ\text{C}$

Parameter	Symbol	Min.	Max.	Unit
Reverse Breakdown Voltage at $I_R = 10 \mu\text{A}$	V_{BR}	70	-	V
Forward Voltage at $I_F = 1 \text{ mA}$	V_F	-	410	mV
Reverse Current at $V_R = 50 \text{ V}$	I_R	-	100	nA
Diode Capacitance at $V_R = 0 \text{ V}$, $f = 1 \text{ MHz}$	C_{tot}	-	2	pF

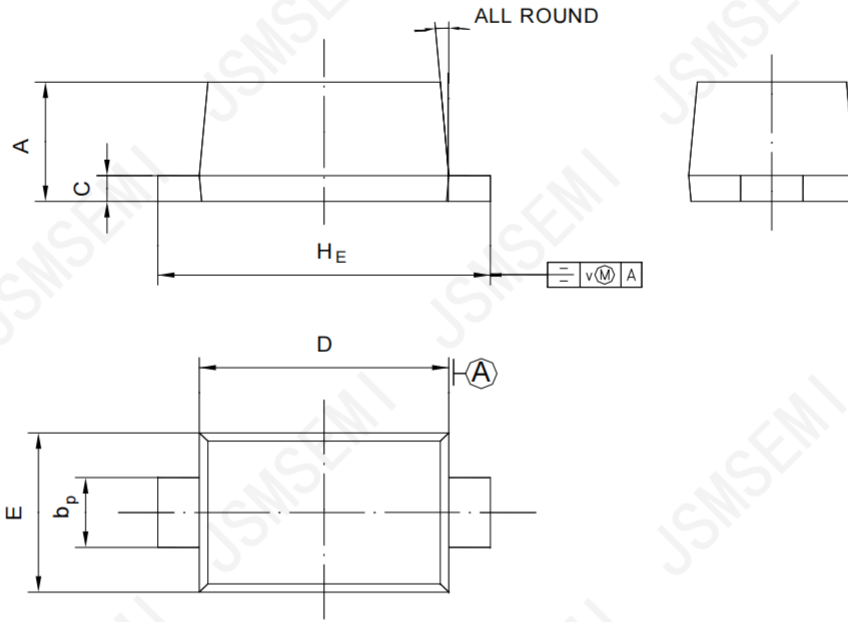
Electrical Characteristics Curves



PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-523



UNIT	A	b _p	C	D	E	H _E	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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