

## FEATURES

- ◆ Low power losses, high efficiency.
- ◆ Guardring for over voltage protection.
- ◆ For use in low voltage high frequency inverters, free wheeling, and polarity protection applications
- ◆ We declare that the material of product compliance with RoHS requirements and Halogen Free.



SOD128

## MAXIMUM RATINGS(Ta = 25° C)

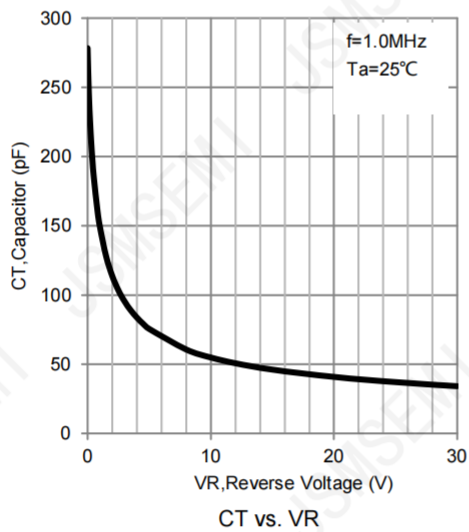
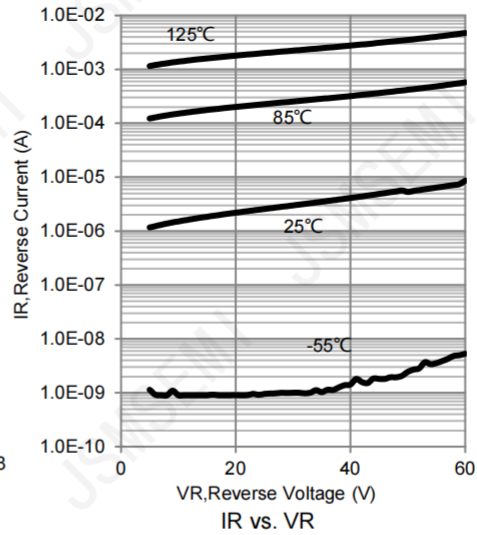
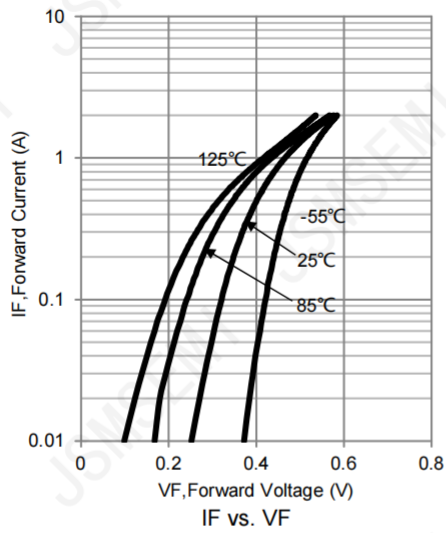
Parameter	Symbol	Limits	Unit
Maximum repetitive peak reverse voltage	VRRM	60	V
Maximum RMS voltage	VRMS	42	V
Maximum DC blocking voltage	VDC	60	V
Maximum average forward rectified current at TA = 75°C	IF(AV)	3	A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	50	A
Typical thermal resistance (Note 1)	RθJA	85	°C/W
Operating junction temperature range	TJ	-55 ~ +150	°C
storage temperature range	TSTG	-65 ~ +175	°C

Note: 1. 8.0mm<sup>2</sup> (.013mm thick) land areas

## ELECTRICAL CHARACTERISTICS (Ta = 25°C)

Characteristic	Symbol	Min.	Max.	Unit
Reverse Voltage	VR	60	-	V
Forward Voltage (IF = 2A)	VF	-	0.7	V
Reverse Current (VR = 60V)	IR	-	100	μA

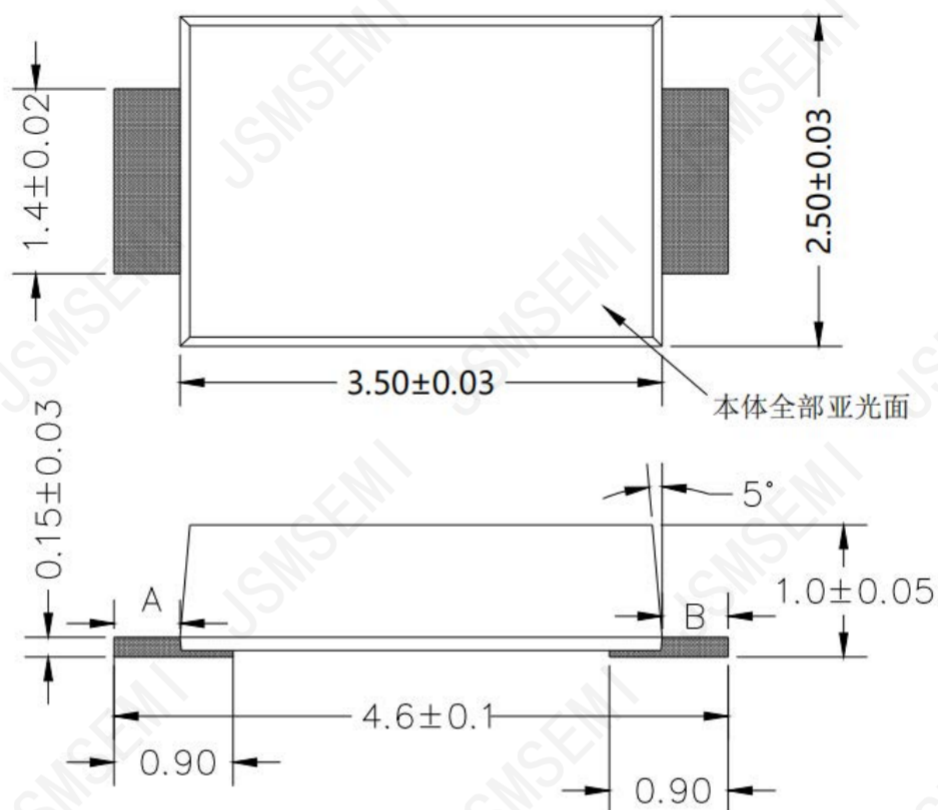
## ELECTRICAL CHARACTERISTICS CURVES



# PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD128



## Revision History

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

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