

Features

- Low Forward Voltage Drop
- Guard Ring Construction for Transient Protection
- High Conductance
- Also Available in Lead Free Version


Mechanical Data

- Case: SOD-323
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 5.48mg / 0.00019oz

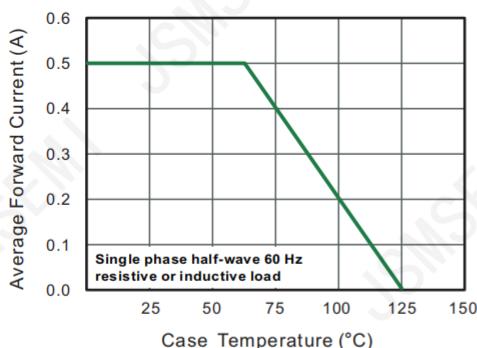
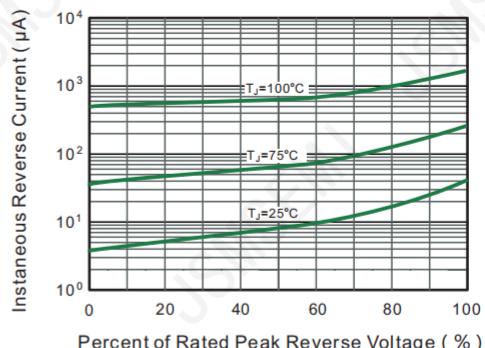
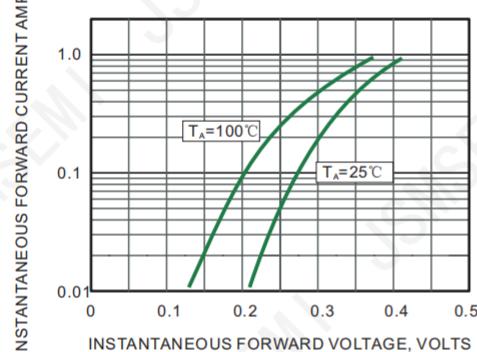
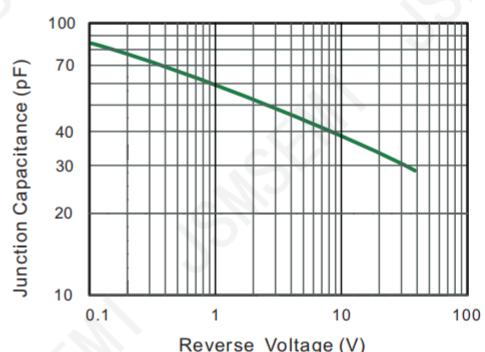
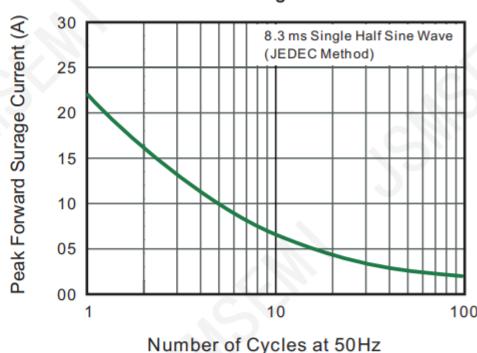
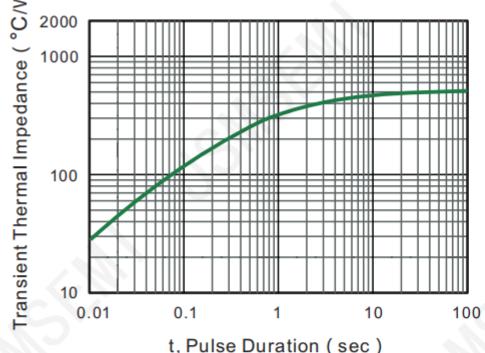
Pining

PIN	DESCRIPTION
1	Cathode
2	Anode

Maximum Ratings and Electrical characteristics

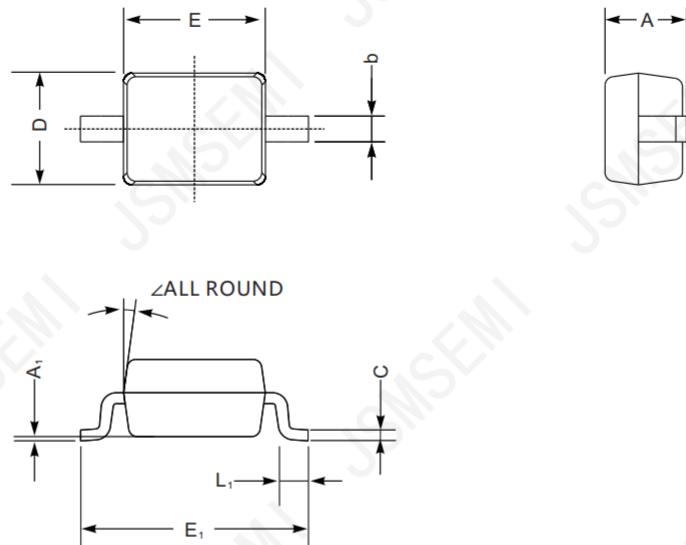
Ratings at 25°C ambient temperature unless otherwise specified.

Parameter	Symbols	PMEG4005AEA,115-JSM		Units
Peak Repetitive Reverse Voltage	V_{RRM}	40		V
RMS reverse voltage reverse voltage (DC)	V_{RMS}	28		V
Maximum DC Blocking Voltage	V_{DC}	40		V
Maximum Average Forward Current at $T_a=25^\circ C$	I_o	0.5		A
Peak Forward Surge Current, 8.3ms single half sine-wave super imposed on rated load (JEDEC method)	I_{FSM}	22		A
Maximum Instantaneous Forward Voltage	V_F	0.51		V
Reverse current	I_R	0.62		uA
Thermal Resistance, Junction to Ambient Air	R_{JJA}	500		°C/W
Junction temperature	T_j	-55 ~ +125		°C
Storage temperature	T_{stg}	-55 ~ +150		°C

Fig.1 Forward Current Derating Curve

Fig.2 Typical Reverse Characteristics

Fig.3 TYPICAL FORWARD VOLTAGE

Fig.4 Typical Junction Capacitance

Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

Fig.6 Typical Transient Thermal Impedance


PACKAGE OUTLINE

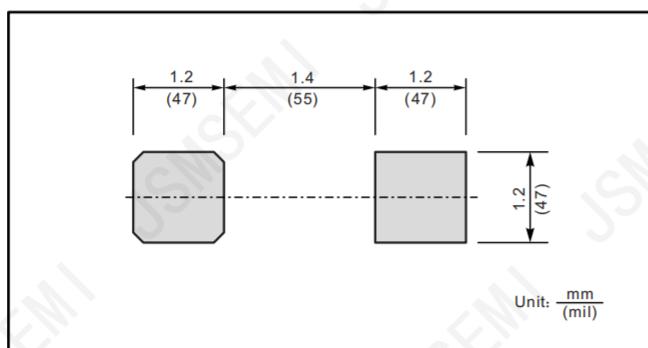
Plastic surface mounted package; 2 leads



SOD-323 mechanical data

UNIT		A	C	D	E	E ₁	b	L ₁	A ₁	∠
mm	max	1.1	0.15	1.4	1.8	2.75	0.4	0.45	0.2	9°
	min	0.8	0.08	1.2	1.4	2.55	0.25	0.2	—	
mil	max	43	5.9	55	70	108	16	16	8	9°
	min	32	3.1	47	63	100	9.8	7.9	—	

The recommended mounting pad size



Revision History

Rev.	Change	Date
V1.0	Initial version	6/27/2021

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