

#### **Features**

- Average Rectified Output Current:I<sub>O</sub>=400mA
- Power Dissipation of 200mW

#### **Package Marking and Ordering Information**

Product ID	Pack	Marking	Qty(PCS)
PMEG4005CEAX	SOD-323	B4	3000



SOD-323



## Maximum Ratings (Ta=25°C unless otherwise noted)

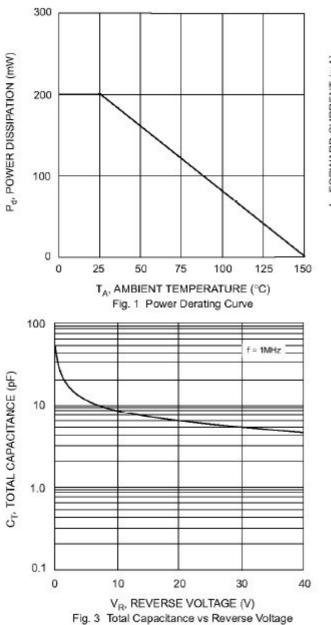
Parameter	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	$V_{RRM}$	40	V
Reverse Voltage	V <sub>R</sub>	40	V
Average Forward Rectified Current	I <sub>F(AV)</sub>	400	mA
Non-Repetitive Peak Forward Surge Current at t = 1 s	I <sub>FSM</sub>	2	А
Power Dissipation	P <sub>tot</sub>	200	mW
Operating and Storage Temperature Range	$T_{j}, T_{stg}$	- 65 to + 125	°C

## **Electrical Characteristics (Ta=25°C unless otherwise specified)**

Parameter	Symbol	Min.	Тур.	Max.	Unit
Reverse Breakdown Voltage	V <sub>(BR)R</sub>	40	- - -	- - -	V
Reverse Leakage Current at $V_R$ at $V_R = 20 \text{ V}$ at $V_R = 10 \text{ V}$	<b>L</b> <sub>R</sub>	-	- - -	5 5 5	μA
Forward Voltage at I <sub>F</sub> = 20 mA at I <sub>F</sub> = 200 mA	V <sub>F</sub>	1	-	0.37 0.6	V
Total Capacitance at $V_R = 0 \text{ V}$ , $f = 1 \text{ MHz}$	Ст	-	50	-	pF
Reverse Recovery Time at $I_F = I_R = 200$ mA, $I_{rr} = 0.1$ $I_R$ , $R_L = 100$ $\Omega$	t <sub>rr</sub>	1	10	-	ns



## **Typical Characteristics**



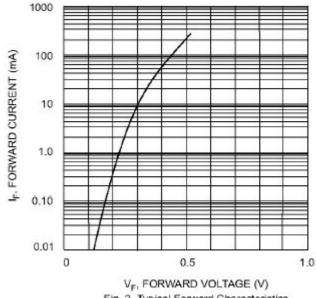
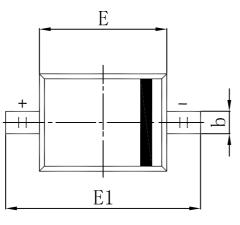
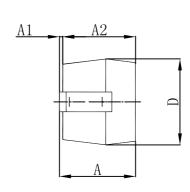


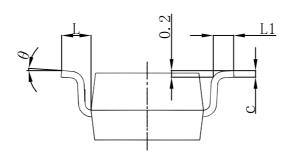
Fig. 2 Typical Forward Characteristics



# **Package Outline Dimensions** SOD-323







Symbol	Dimensions In Millimeters		Dimensions In Inches		
	Min	Max	Min	Max	
Α		1.100		0.043	
A1	0.000	0.100	0.000	0.004	
A2	0.800	1.000	0.031	0.039	
b	0.250	0.350	0.010	0.014	
С	0.080	0.150	0.003	0.006	
D	1.200	1.400	0.047	0.055	
E	1.600	1.800	0.063	0.071	
E1	2.500	2.750	0.098	0.108	
L	0.475 REF		0.019 REF		
L1	0.250	0.400	0.010	0.016	
θ	0°	8°	0°	8°	



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