



Features

- Peak Forward Current: $I_{FM}=1A$
- Power Dissipation of 250mW

Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
PMEG2010EA,135	SOD-323	SJ	3000



SOD-323



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

Parameter	Symbol	Value	Unit
Reverse Voltage	V_R	20	V
Average Forward Rectified Current	$I_{F(AV)}$	1	A
Non-Repetitive Peak Forward Surge Current (8.3 ms Single Half Sine-Wave)	I_{FSM}	25	A
Power Dissipation	P_{tot}	250	mW
Operating Temperature Range	T_j	125	°C
Storage Temperature Range	T_{stg}	- 55 to + 125	°C

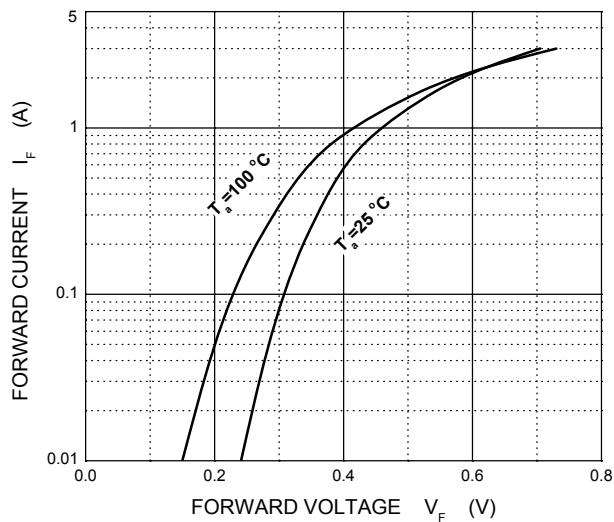
Electrical Characteristics(Ta=25°C unless otherwise specified)

Parameter	Symbol	Min.	Max.	Unit
Reverse Breakdown Voltage at $I_R = 1\text{ mA}$	$V_{(BR)R}$	20	-	V
Reverse Current at $V_R = 20\text{ V}$	I_R	-	1	mA
Forward Voltage at $I_F = 1\text{ A}$ at $I_F = 3\text{ A}$	V_F	- -	0.45 0.75	V
Total Capacitance at $V_R = 4\text{ V}$, $f = 1\text{ MHz}$	C_{tot}	-	120	pF

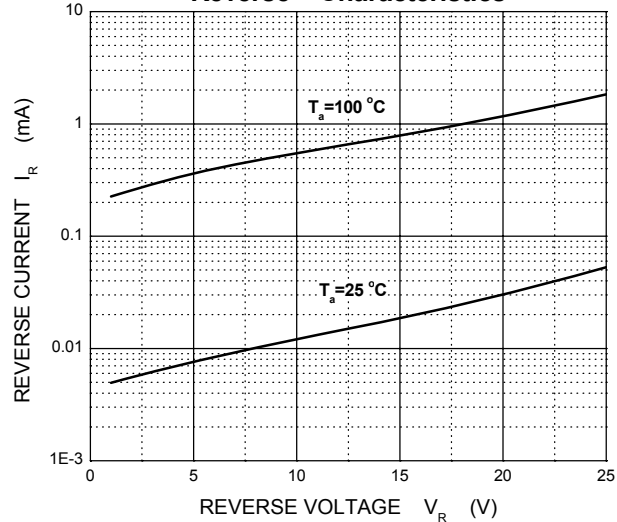


Typical Characteristics

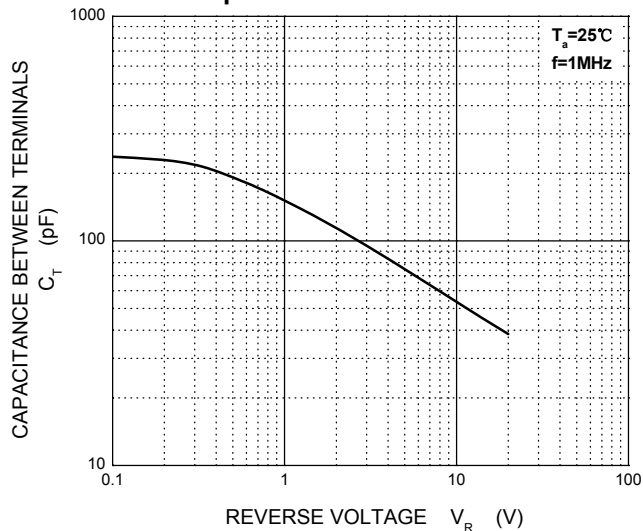
Forward Characteristics



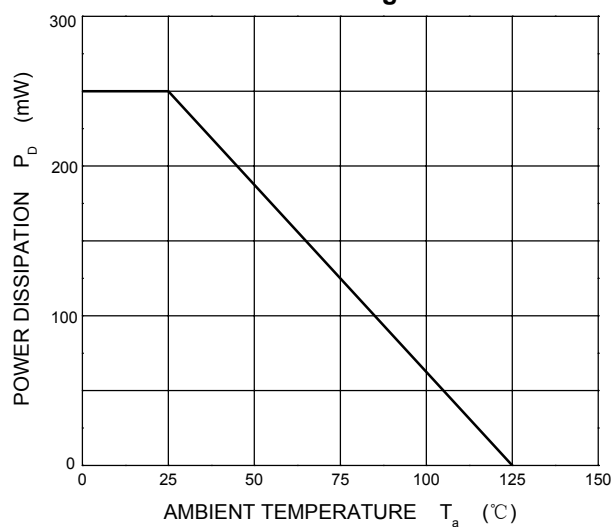
Reverse Characteristics



Capacitance Characteristics

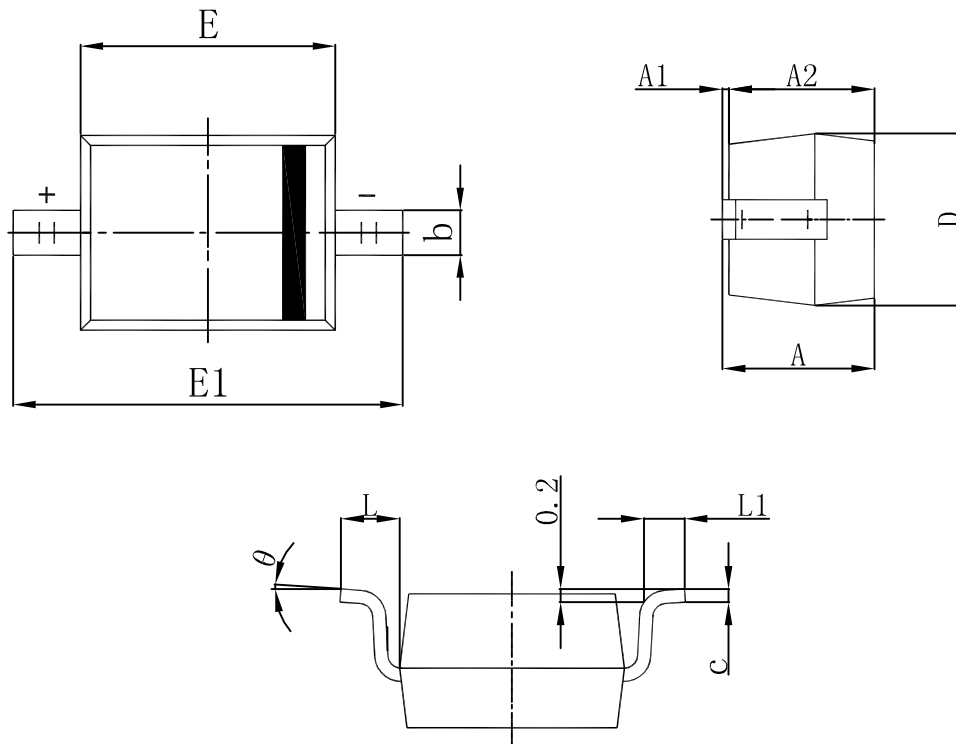


Power Derating Curve





Package Outline Dimensions SOD-323



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A		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
c	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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