

Surface Mount Schottky Barrier Diode

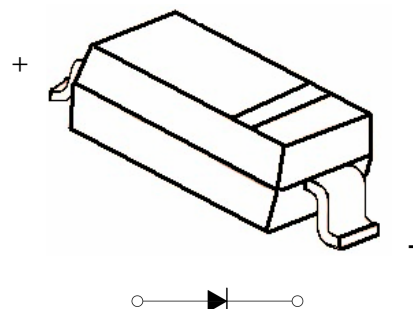
Feature

- High Current Capability
- Low Forward Voltage Drop
- Low I_R

Mechanical Data

- SOD-323 Small Outline Plastic Package
- Polarity: Color band denotes cathode end
- Flammability rating of epoxy resin: UL 94V-0
- Mounting Position: Any

SOD-323



Ordering Information

Part Number	Package	Marking	Packing	Quantity per reel	Reel Size
PMEG6010CEJ	SOD-323	SM	Tape & Reel	3000 PCS	7 inches

Maximum Ratings & Thermal Characteristics ($T_A=25^{\circ}\text{C}$ unless otherwise noted)

Parameter	Symbol	Value	Unit
Maximum repetitive peak reverse voltage	V_{RRM}	60	V
Maximum RMS voltage	V_{RMS}	42	V
Maximum DC blocking voltage	V_{DC}	60	V
Maximum average forward rectified current	I_{FM}	1	A
Peak forward surge current 8.3 ms single half sine-wave	I_{FSM}	10	A
Typical thermal resistance	$R_{\theta JA}$	400	$^{\circ}\text{C}/\text{W}$
Power Dissipation	P_D	250	mW
Junction temperature	T_j	125	$^{\circ}\text{C}$
Storage temperature range	T_{STG}	-55-+150	$^{\circ}\text{C}$

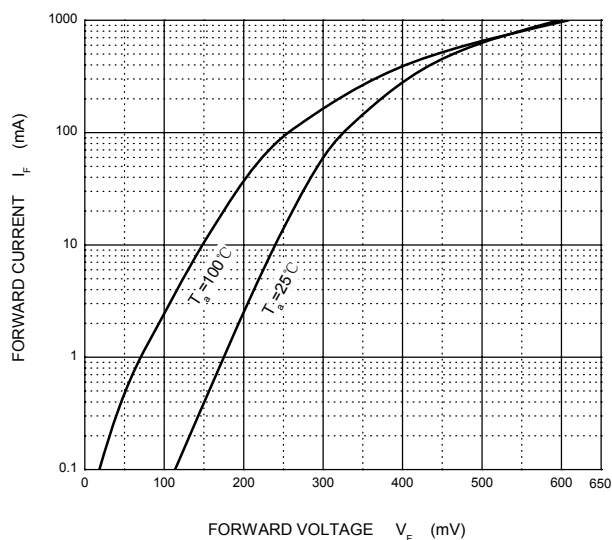


Electrical Characteristics ($T_A=25^{\circ}\text{C}$ unless otherwise noted)

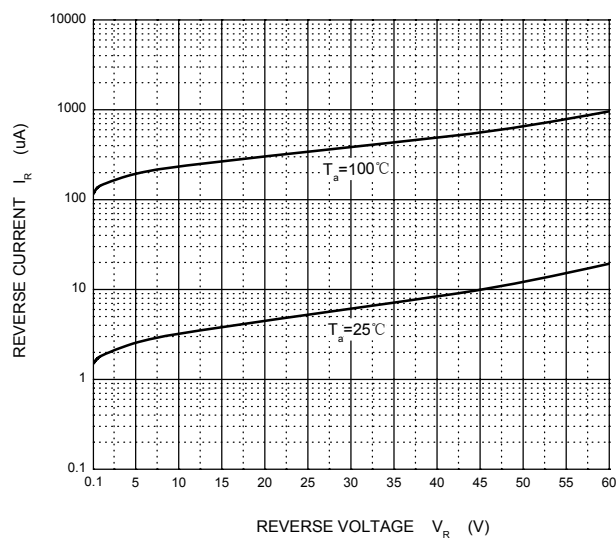
Parameter	Symbol	Test conditions	Value	Unit
Maximum forward voltage	V_F	$I_F=1.0\text{A}$	0.70(max.)	V
Maximum reverse current	I_R	$V_R=60\text{V}$	100(max.)	μA

Characteristic Curves

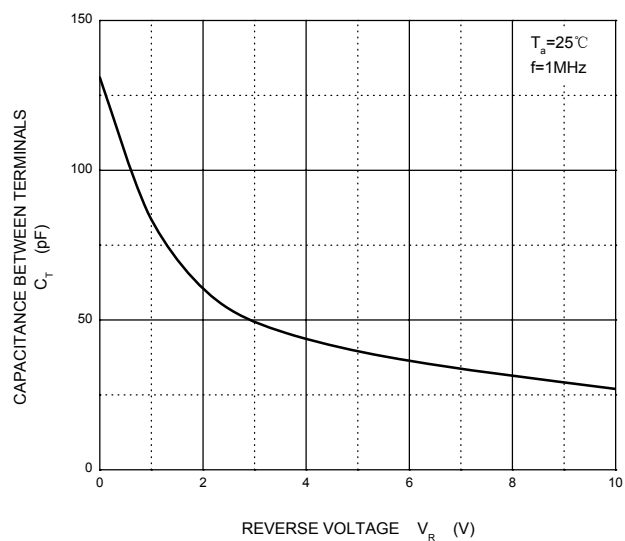
Forward Characteristics



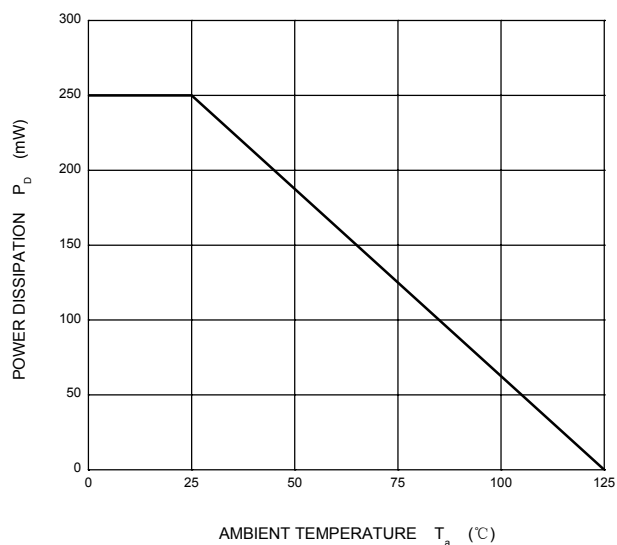
Reverse Characteristics



Capacitance Characteristics

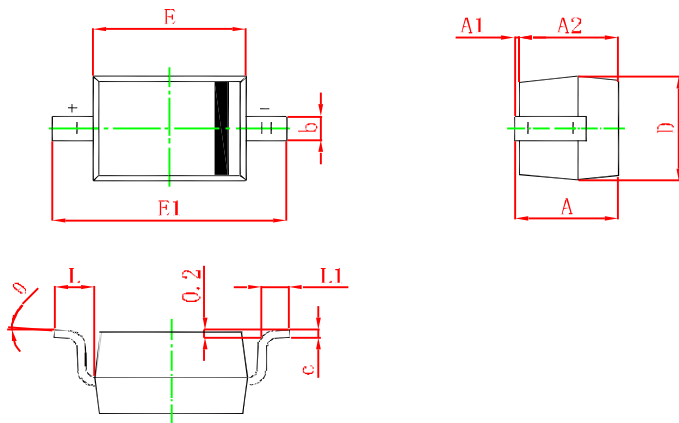


Power Derating Curve





SOD-323 Package Outline Dimensions



Symbol	Min.(mm)	Max.(mm)
A		1.000
A1	0.000	0.100
A2	0.800	0.900
b	0.250	0.350
c	0.080	0.150
D	1.200	1.400
E	1.600	1.800
E1	2.500	2.700
L	0.475REF	
L1	0.250	0.400
θ	0°	8°