

Plastic-Encapsulate Diodes

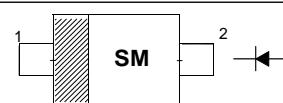
Schottky Barrier Diode

FEATURES

- Guard ring protection
- Low forward voltage drop
- For use in low voltage, high frequency inverters
- High surge current capability

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



Top View
 Marking Code: "SM"
 Simplified outline SOD-323 and symbol

Marking: SM

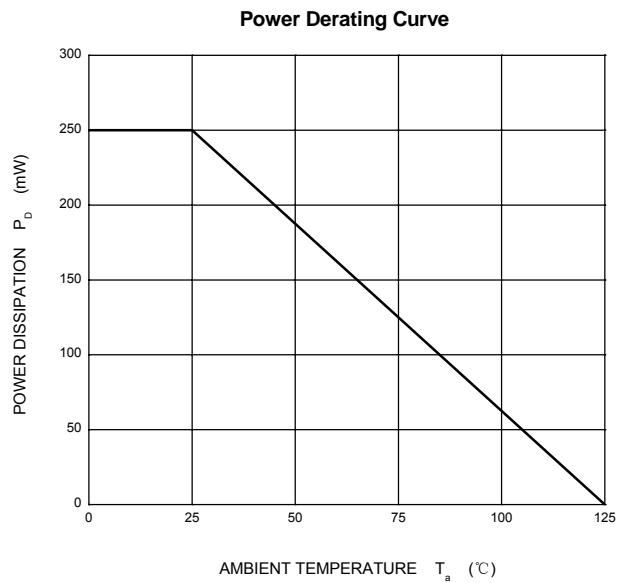
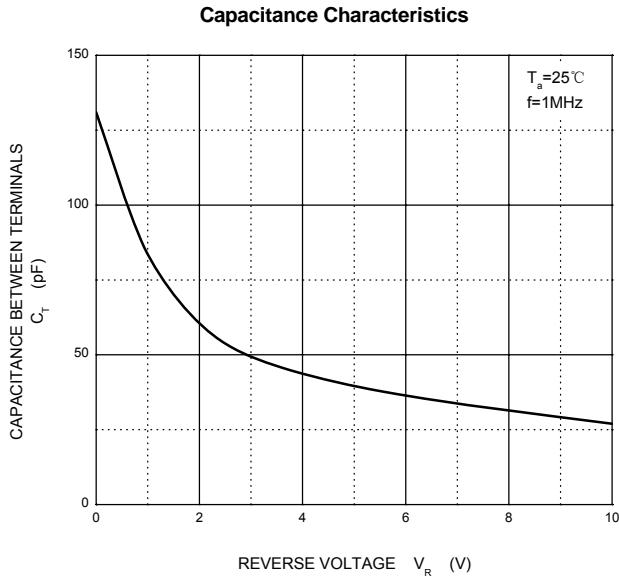
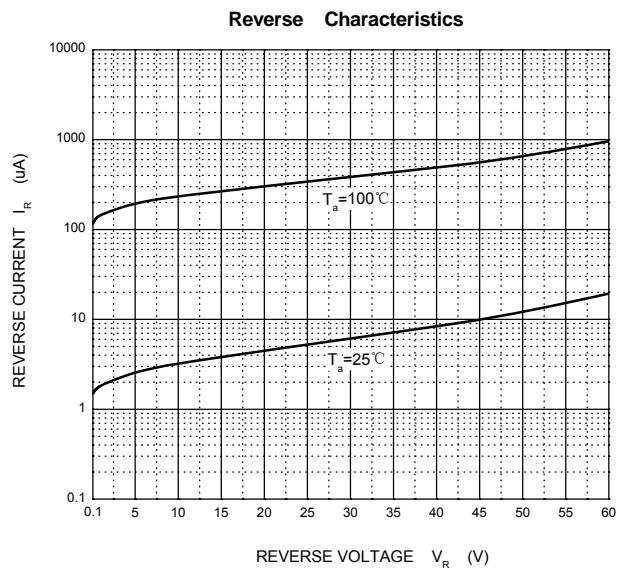
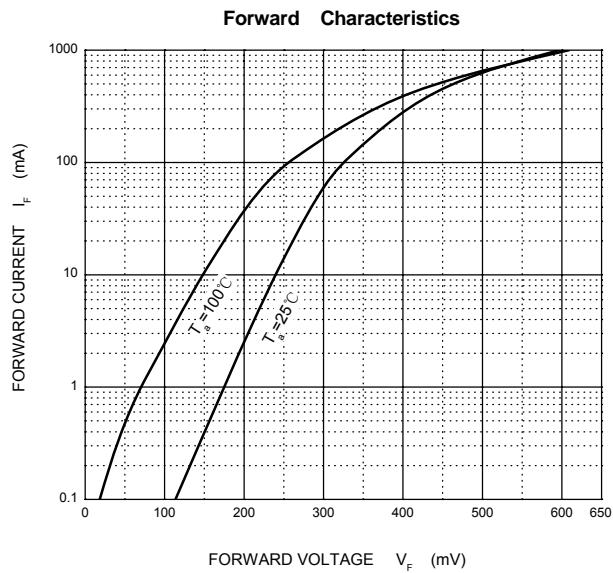
MAXIMUM RATINGS(Ta=25°C unless otherwise noted)

Symbol	Parameter	Value	Unit
V_{RRM}	Maximum recurrent peak reverse voltage	60	V
V_{RMS}	Maximum RMS voltage	42	
V_{DC}	Maximum DC blocking voltage	60	
I_F	Continuous forward current	1	A
I_{FSM}	Non-repetitive Peak forward surge current@t=8.3ms	10	
P_{tot}	Total power dissipation	250	mW
R_{θJA}	Thermal resistance junction to ambient air	400	°C/W
T_J	Junction temperature	125	°C
T_{stg}	storage temperature	-55~+150	°C

ELECTRICAL CHARACTERISTICS(Ta=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Maximum instantaneous forward voltage	V _F	I _F =1A			0.7	V
Maximum DC reverse current at rated DC blocking voltage	I _R	V _R =60V			0.1	mA
Total capacitance	C _{tot}	V _R =4V,f=1MHz			120	pF

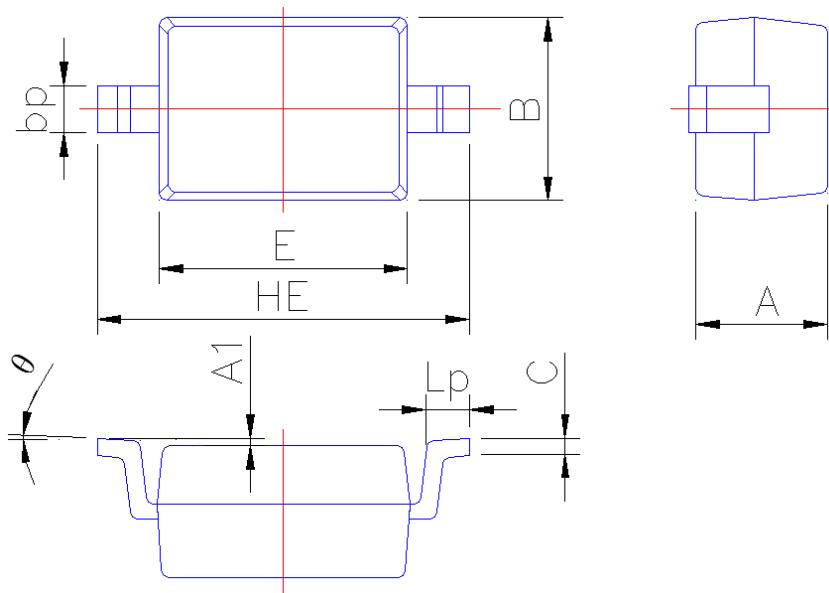
Typical Characteristics



PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-323



Symbol	Dimension in Millimeters	
	Min	Max
A	0.95	1.15
A1	0.010	0.100
B	1.20	1.40
bp	0.25	0.40
C	0.09	0.150
E	1.60	1.80
HE	2.30	2.70
Lp	0.20	0.40
θ	0°	5°