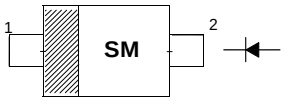
Plastic-Encapsulate Diodes

Schottky Barrier Diode

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



Top View
Marking Code: "**SM**"
Simplified outline SOD-123 and symbol

FEATURES

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

Marking: SM

MAXIMUM RATINGS(Ta=25℃ 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
$R_{\theta JA}$	Thermal resistance junction to ambient air	400	℃/W
T_J	Junction temperature	125	℃
T_{stg}	storage temperature	-55~+150	℃

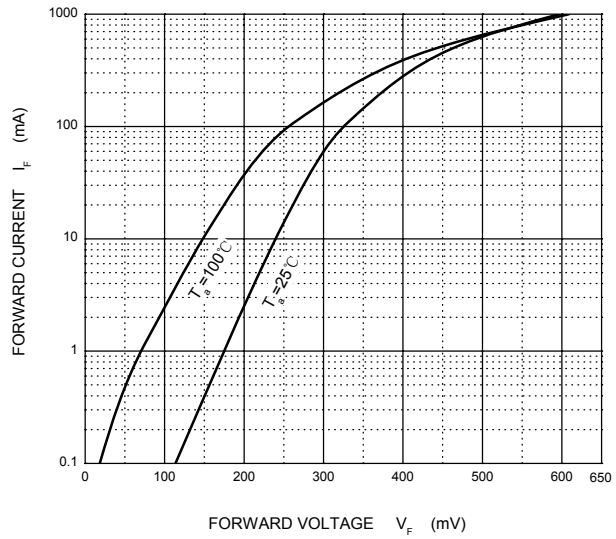
ELECTRICAL CHARACTERISTICS(Ta=25℃ unless otherwise specified)

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

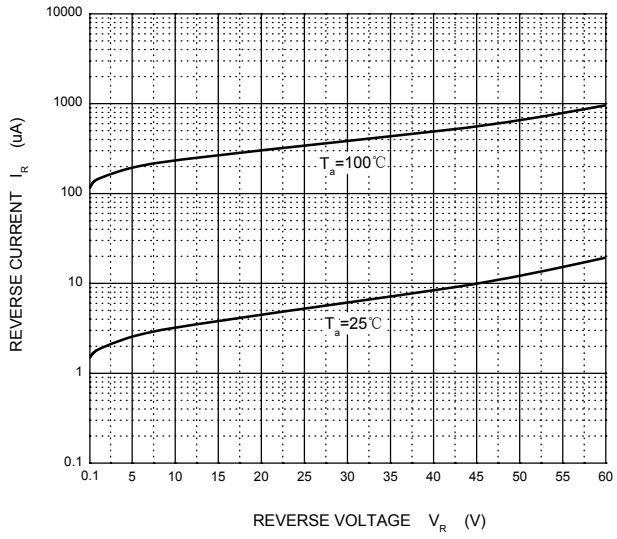
Copyright © All right reserved： Heyuan China Base Electronics Technology Co., Ltd.

Typical Characteristics

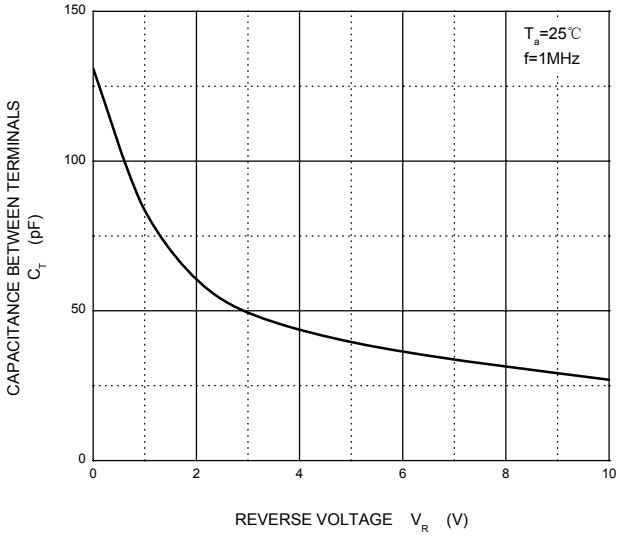
Forward Characteristics



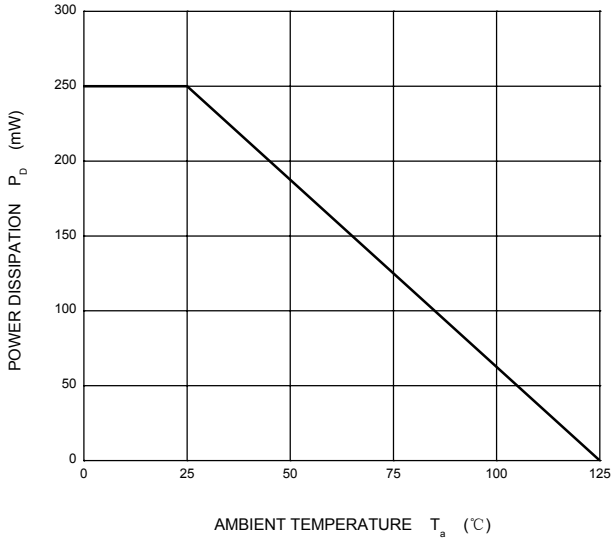
Reverse Characteristics



Capacitance Characteristics



Power Derating Curve



Copyright © All right reserved： Heyuan China Base Electronics Technology Co., Ltd.