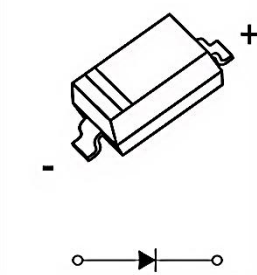


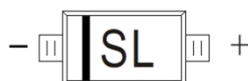
FEATURES

*For use in low voltage, high frequency inverters Free wheeling, and polarity protection applications.

SOD-123



MARKING



The marking bar indicates the cathode
Solid dot = Green molding compound device

ABSOLUTE MAXIMUM RATINGS (Tc=25°C, unless otherwise specified)

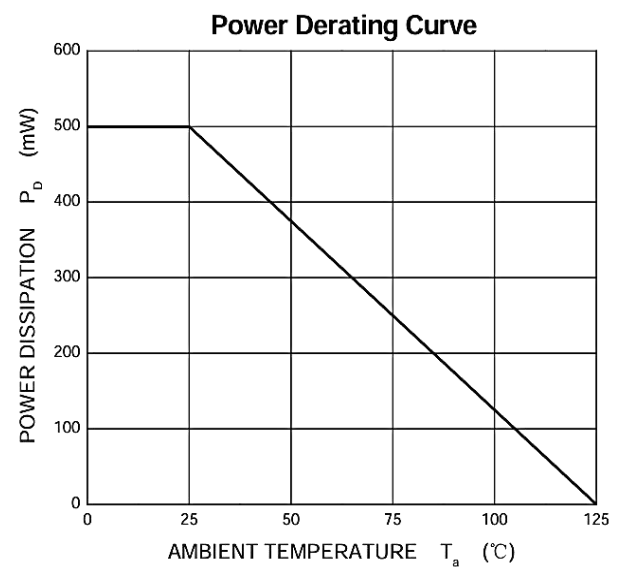
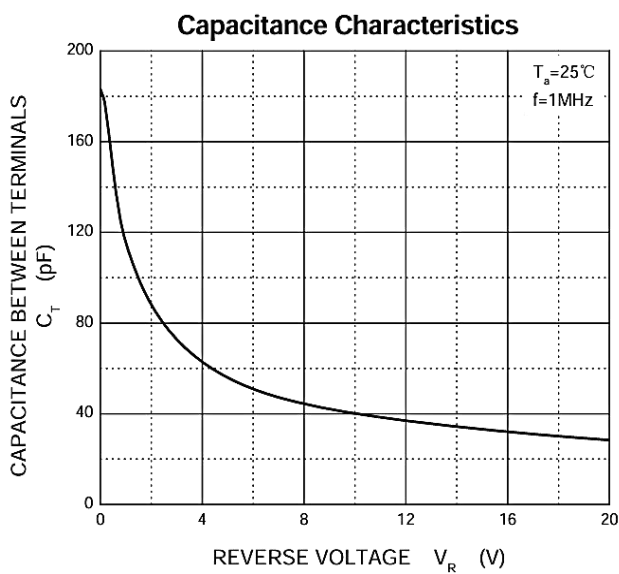
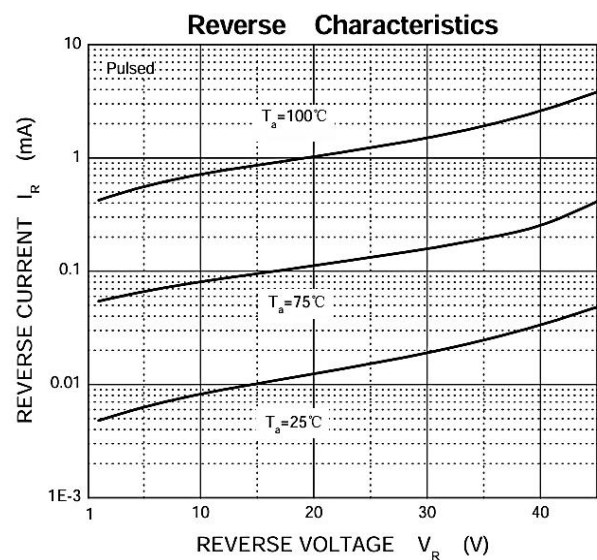
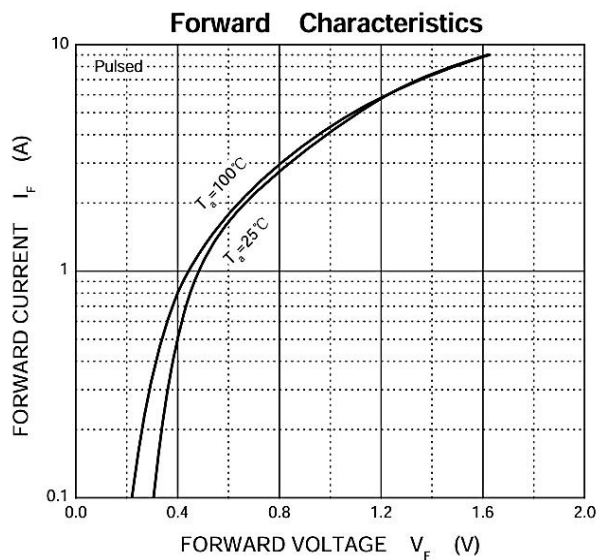
SYMBOL	PARAMETER	VALUE	UNIT
VRM	Non-Repetitive Peak Reverse Voltage	40	V
VRRM	Peak Repetitive Peak Reverse Voltage	40	V
VRWM	Working Peak Reverse Voltage		
VR	DC Blocking Voltage		
VR(RMS)	RMS Reverse Voltage	28	V
IO	Average Rectified Output Current	1	A
IFSM	Non-Repetitive Peak Forward Surge Current(tp=8.3ms)	9	A
IFRM	Repetitive Peak Forward Current	1.5	A
PD	Power Dissipation	500	mW
RθJA	Thermal Resistance from Junction to Ambient	200	°C/W
Tj	Operating Junction Temperature Range	125	°C
Tstg	Storage Temperature Range	-55~150	°C

ELECTRICAL CHARACTERISTICS (Tc=25°C, unless otherwise noted)

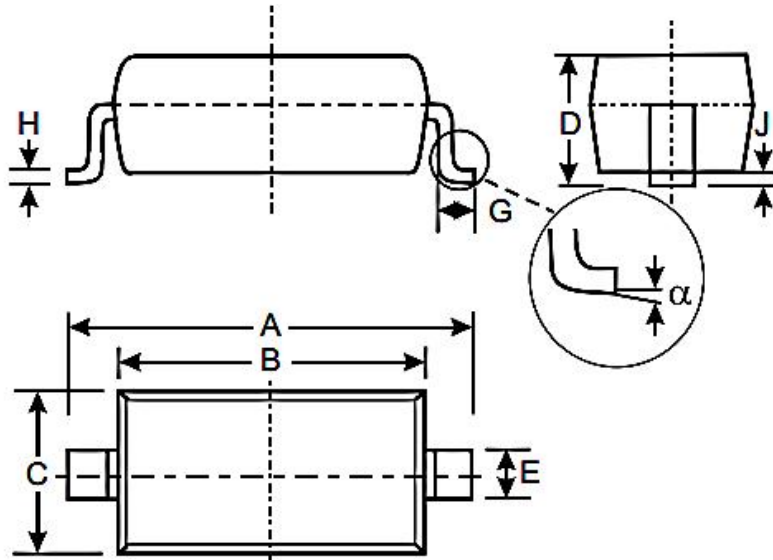
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Reverse breakdown voltage	V _(BR)	I _R =1mA	40			V
Reverse voltage leakage current	I _R	V _R =40V			1	mA

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Forward voltage	V_F	$I_F=1A$			0.6	V
		$I_F=3A$			0.9	
Diode capacitance	C_D	$V_R=4V, f=1MHz$			120	pF

TYPICAL CHARACTERISTICS



■ SOD-123 PACKAGE OUTLINE DIMENSIONS



SOD-123		
Dim	Min	Max
A	3.55	3.85
B	2.60	2.80
C	1.50	1.70
D	—	1.25
E	0.45	0.65
G	0.25	—
H	0.1	0.12
J	0.01	0.1
α	0°	8°
All Dimensions in mm		