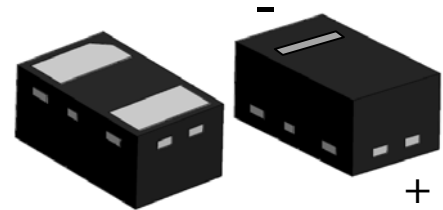


SOD-882 Plastic Package Schottky Barrier Diode

Green Product



SOD882 Package



Absolute Maximum Ratings $T_A = 25^\circ\text{C}$ unless otherwise noted

Symbol	Parameter	Value	Units
P_D	Power Dissipation	150	mW
T_{STG}	Storage Temperature Range	-55 to +125	$^\circ\text{C}$
T_J	Operating Junction Temperature	+125	$^\circ\text{C}$
$R_{\theta JA}$	Thermal Resistance from Junction to Ambient	667	$^\circ\text{C/W}$
V_R	DC Reverse Voltage	40	V
$I_{F(AV)}$	Average Forward Current	200	mA
I_{FSM}	Peak Forward Surge Current (At 8.3ms single half sine-wave)	0.5	A

These ratings are limiting values above which the serviceability of the diode may be impaired.

Specification Features:

- Low Forward Voltage Drop
- Small Surface Mounting Type
- RoHS Compliant
- Green EMC
- Matte Tin(Sn) Lead Finish
- Band Indicates Cathode
- Weight: approx. 0.001g

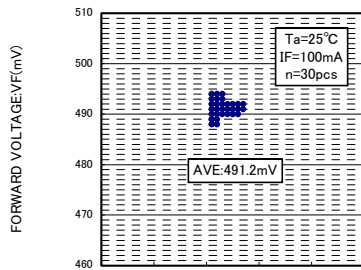
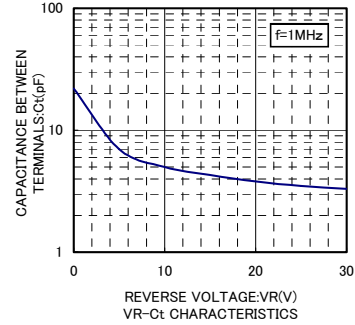
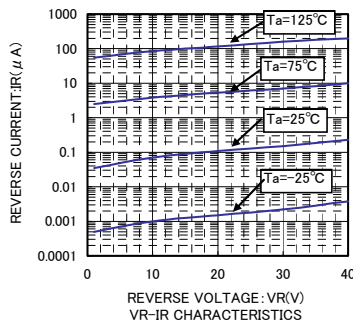
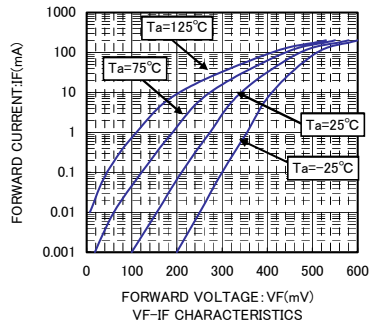
DEVICE MARKING CODES:

Device Type	Marking	Shipping
LM631BS-40	E	10K/REEL

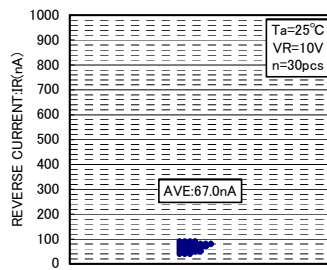
Electrical Characteristics $T_A = 25^\circ\text{C}$ unless otherwise noted

Symbol	Parameter	Test Condition	Limits		Unit
			Min	Max	
I_R	Reverse Leakage Current	$V_R = 10\text{V}$		1	μA
V_F	Forward Voltage	$I_F = 10\text{mA}$		0.40	Volts
		$I_F = 200\text{mA}$		0.60	Volts

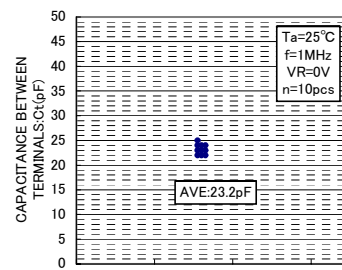
●Electrical characteristic curves



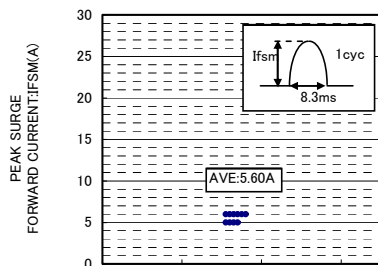
VF DISPERSION MAP



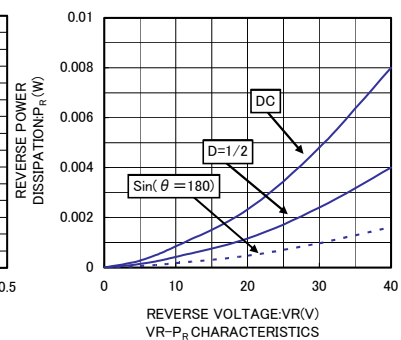
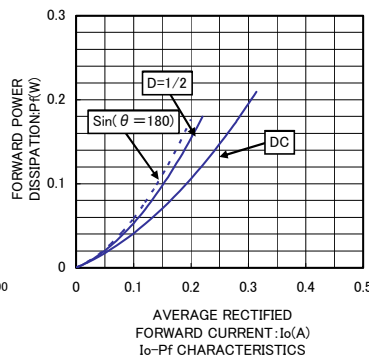
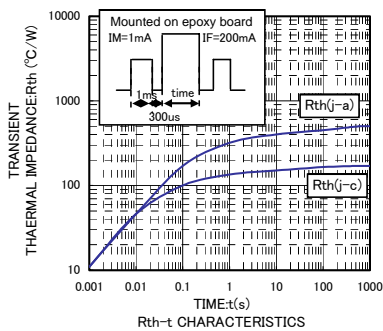
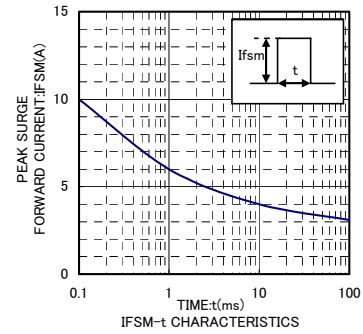
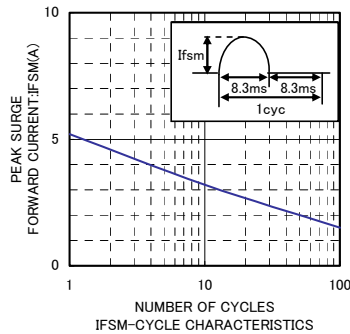
IR DISPERSION MAP

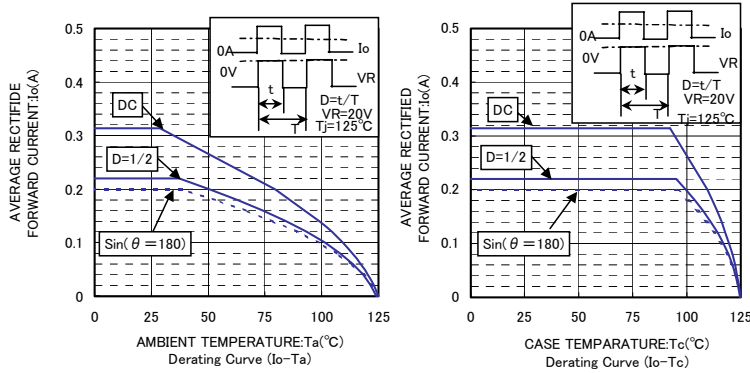


Ct DISPERSION MAP

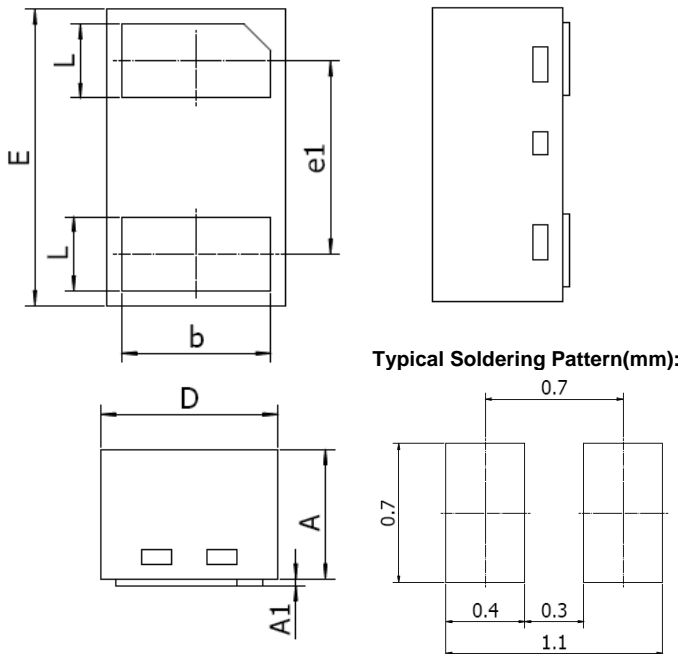


IFSM DISPERSION MAP





SOD882 Package Outline



DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	0.46	0.50	0.018	0.020
A1	---	0.03	---	0.001
b	0.45	0.55	0.018	0.022
D	0.55	0.65	0.022	0.026
E	0.95	1.05	0.037	0.041
e1	Typ. 0.65		Typ. 0.026	
L	0.20	0.30	0.008	0.012

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