

RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

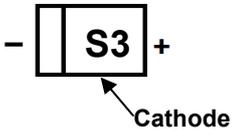
FEATURES

- High Speed Switching
- Small Surface Mounting Type
- Green EMC
- Matte Tin(Sn) Lead Finish

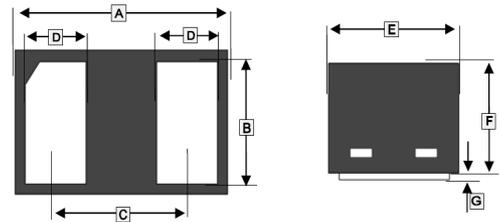
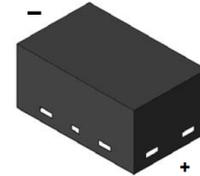
MECHANICAL DATA

- Case: SOD-882
- Polarity: Color band denotes cathode end

MARKING



SOD-882



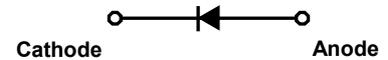
REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	0.95	1.05	E	0.55	0.65
B	0.45	0.55	F	0.46	0.50
C	0.65 TYP		G	-	0.03
D	0.20	0.30			

PACKAGE INFORMATION

Package	MPQ	Leader Size
SOD-882	10K	7 inch

ORDER INFORMATION

Part Number	Type
SCS4148U-C	Lead (Pb)-free and Halogen-free



ABSOLUTE MAXIMUM RATINGS ($T_A=25^{\circ}\text{C}$ unless otherwise specified)

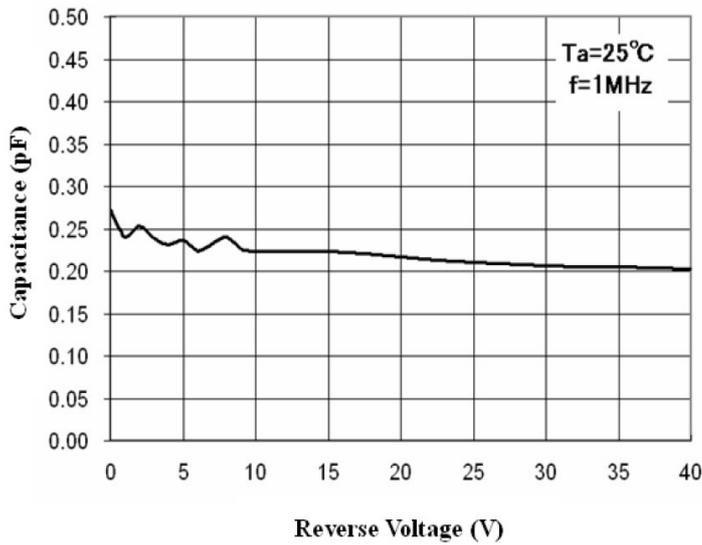
Parameter	Symbol	Rating	Unit
Repetitive Peak Reverse Voltage	V_{RRM}	100	V
DC Reverse Voltage	V_R	75	V
Average Forward Current	I_O	150	mA
Peak Forward Surge Current @8.3ms Single Half Sine-Wave	I_{FSM}	2	A
Power Dissipation	P_D	125	mW
Operating Junction and Storage Temperature Range	T_J, T_{STG}	125, -55~125	$^{\circ}\text{C}$

ELECTRICAL CHARACTERISTICS ($T_A=25^{\circ}\text{C}$ unless otherwise specified)

Parameters	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Forward Voltage	V_F	-	-	1	V	$I_F=10\text{mA}$
Reverse Leakage Current	I_R	-	-	25	nA	$V_R=20\text{V}$
		-	-	5	uA	$V_R=75\text{V}$
Capacitance	C	-	4	-	pF	$V_R=0\text{V}, f=1\text{MHz}$
Reverse Recovery Time	T_{RR}	-	4	-	nS	$I_F=10\text{mA}, I_R=60\text{mA}, R_L=100\Omega, I_{RR}=1\text{mA}$

RATINGS AND CHARACTERISTIC CURVES

Total Capacitance



Forward Voltage vs Ambient Temperature

