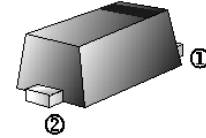


RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

FEATURES

- Fast Switching Device
- General Purpose Diodes
- Surface Device Type Mounting
- Compression Bonded Construction
- All External Surfaces are Corrosion Resistant and Terminals are Readily Solderable
- Matte Tin (Sn) Lead Finish

SOD-523



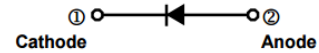
MARKING

E1

T4

PACKAGE INFORMATION

Package	MPQ	Leader Size
SOD-523	8K	7 inch



ORDER INFORMATION

Part Number	Type
SCS4148S-C	Lead (Pb)-free and Halogen-free

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

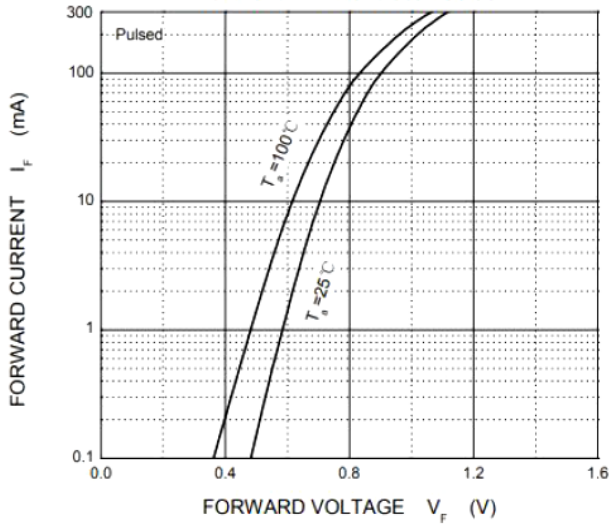
Parameter	Symbol	Ratings	Unit
Non-Repetitive Peak Reverse Voltage	V _{RM}	100	V
Repetitive Peak Reverse Voltage	V _{RRM}	100	
RMS Reverse Voltage	V _{R(RMS)}	75	
Forward Continuous Current	I _F	300	mA
Average Rectified Output Current	I _O	150	mA
Non-Repetitive Peak Forward Surge Current @t=8.3ms	I _{FSM}	2	A
Power Dissipation	P _D	150	mW
Operating Junction & Storage Temperature Range	T _J , T _{STG}	150, -55~150	°C

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

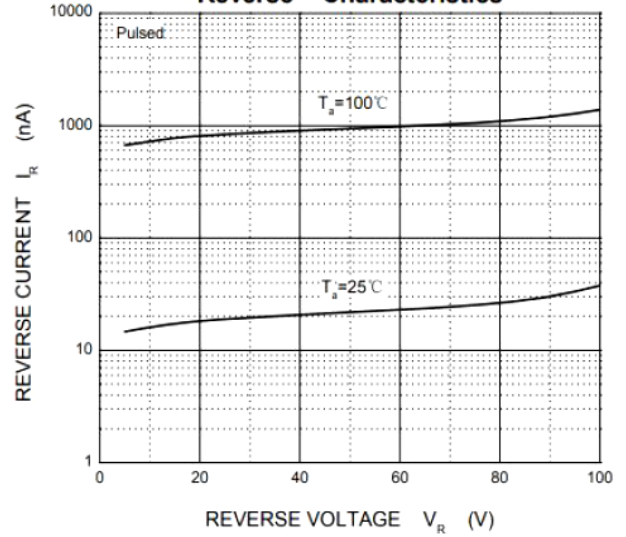
Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Forward Voltage	V _F	-	-	0.715	V	I _F =1mA
		-	-	0.855		I _F =10mA
		-	-	1		I _F =50mA
		-	-	1.25		I _F =150mA
Reverse Leakage Current	I _R	-	-	25	nA	V _R =20V
		-	-	1	µA	V _R =75V
Reverse Recovery Time	T _{RR}	-	4	-	nS	I _F =I _R =10mA, R _L =100Ω, I _{RR} =1mA
Capacitance	C _T	-	2	-	pF	V _R =0, f=1MHz

CHARACTERISTIC CURVES

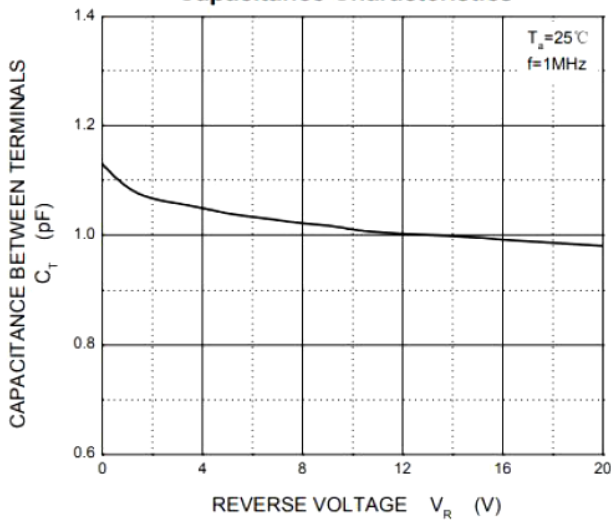
Forward Characteristics



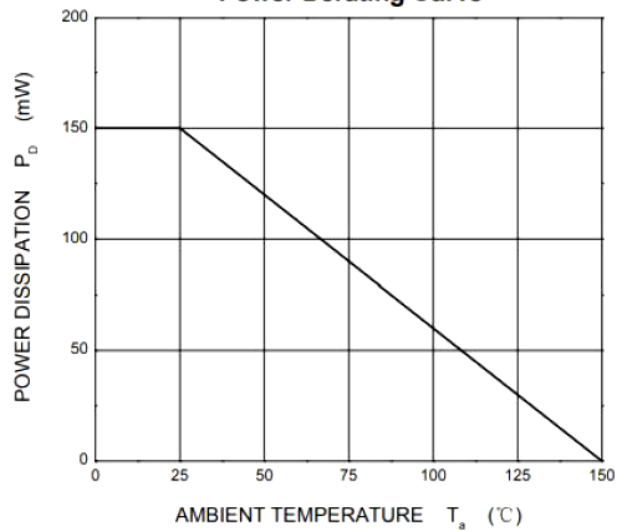
Reverse Characteristics



Capacitance Characteristics

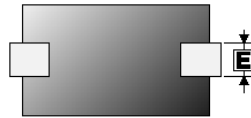
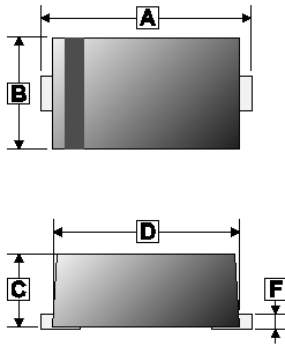


Power Derating Curve



PACKAGE OUTLINE DIMENSIONS

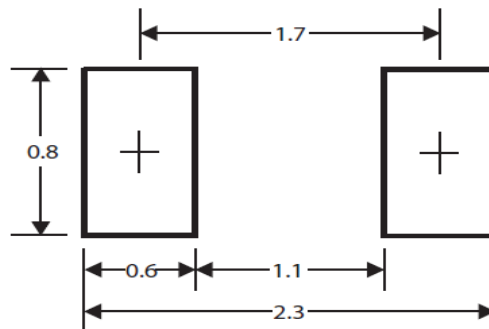
SOD-523



REF.	Millimeter	
	Min.	Max.
A	1.50	1.70
B	0.70	0.90
C	0.50	0.77
D	1.10	1.30
E	0.25	0.40
F	0.05	0.20

MOUNTING PAD LAYOUT

SOD-523



*Dimensions in millimeters