

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

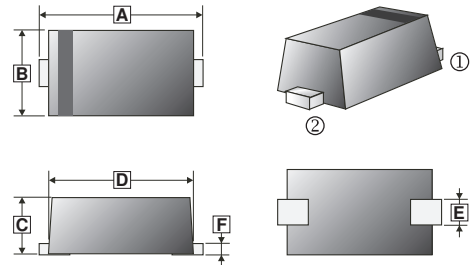
FEATURES

- Ultra Small Mold Type
- Low V_F
- High Reliability

MARKING



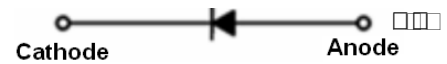
SOD-523



PACKAGE INFORMATION

Package	MPQ	Leader Size
SOD-523	8K	7 inch

REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	1.50	1.70	D	1.10	1.30
B	0.70	0.90	E	0.25	0.35
C	0.50	0.77	F	0.07	0.20



ORDER INFORMATION

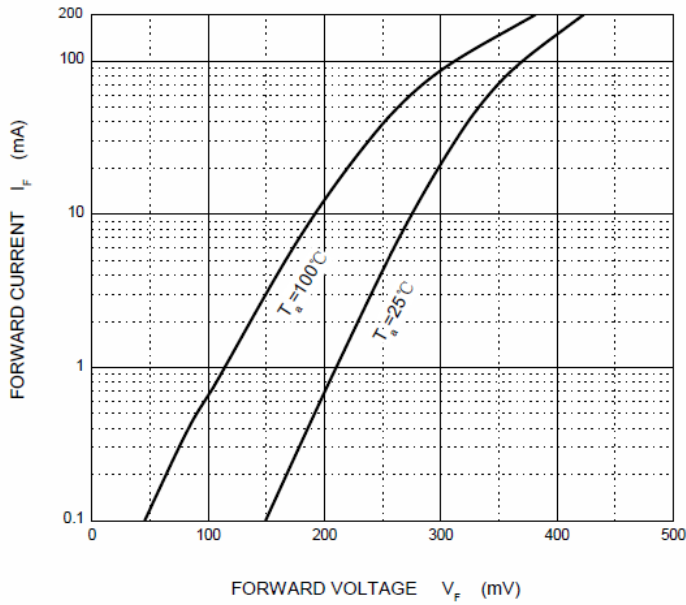
Part Number	Type
SCS521S-40	Lead (Pb)-free
SCS521S-40-C	Lead (Pb)-free and Halogen-free

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

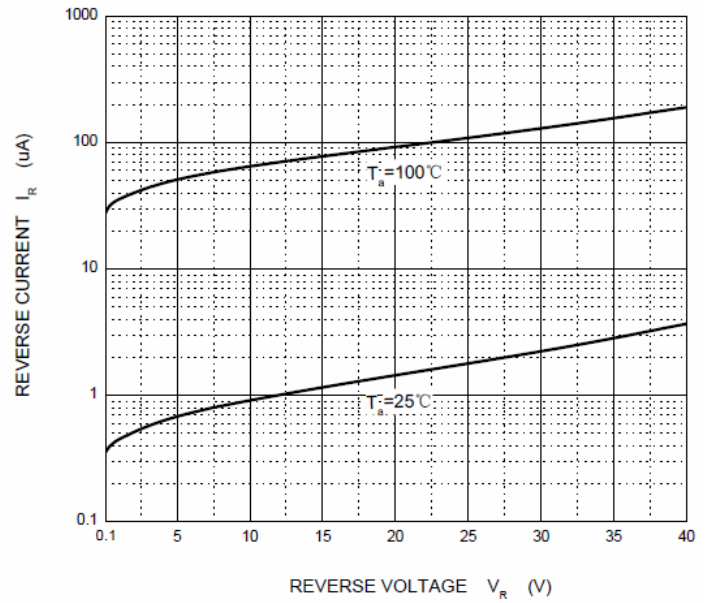
Parameter	Symbol	Rated	Unit	
Non-Repetitive Peak Reverse Voltage	V_{RM}	45	V	
Peak Repetitive Reverse Voltage	V_{RRM}	40	V	
Working Peak Reverse Voltage	V_{RWM}			
RMS Reverse Voltage	$V_{R(RMS)}$	28	V	
Average Rectified Output Current	I_O	200	mA	
Non-Repetitive Peak Forward Surge Current @ $t=8.3\text{ms}$	I_{FSM}	1	A	
Power Dissipation	P_D	150	mW	
Reverse current	I_R	$V_R=10\text{V}$	20	μA
		$V_R=40\text{V}$	90	
Forward Voltage	V_F	$I_F=10\text{mA}$	0.3	V
		$I_F=100\text{mA}$	0.45	
		$I_F=200\text{mA}$	0.54	
Thermal Resistance from Junction-Ambient	$R_{\theta JA}$	667	$^\circ\text{C/W}$	
Junction Temperature	T_J	125	$^\circ\text{C}$	
Storage Temperature Range	T_{STG}	-55~150	$^\circ\text{C}$	

RATINGS AND CHARACTERISTIC CURVES

Forward Characteristics



Reverse Characteristics



Power Derating Curve

