

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

FEATURES

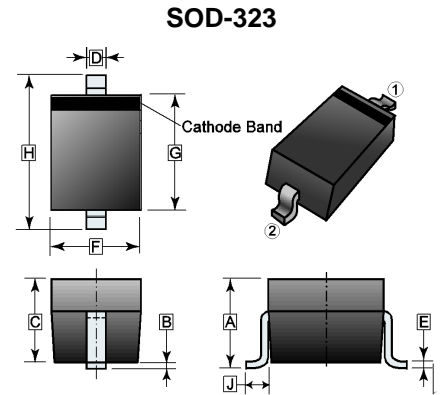
- Low Forward Voltage Drop
- Guard Ring Construction for Transient Protection
- Low Reverse Capacitance
- Qualified to AEC-Q101 Standards for High Reliability

MARKING

Part Number	Marking
SD103AWSCR	S4
SD103BWSCR	S5
SD103CWSCR	S6

PACKAGE INFORMATION

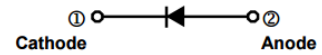
Package	MPQ	Leader Size
SOD-323	3K	7 inch



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	-	1.00	F	1.15	1.45
B	0.20	REF.	G	1.6	1.9
C	0.80	1.00	H	2.30	2.75
D	0.25	0.40	J	0.475	REF.
E	0.080	0.20			

ORDER INFORMATION

Part Number	Type
SD103AWSCR~SD103CWSCR	Lead (Pb)-free
SD103AWSCR-C~SD103CWSCR-C	Lead (Pb)-free and Halogen-free



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

Parameter	Symbol	Part Number			Unit
		SD103CWSCR	SD103BWSCR	SD103AWSCR	
Repetitive Peak Reverse Voltage	V _{RRM}	20	30	40	V
Average Forward Rectified Current	I _F	0.35			A
Peak Forward Surge Current @8.3ms Single Half Sine-Wave	I _{FSM}	1.5			A
Power Dissipation	P _D	200			mW
Thermal Resistance Junction-Ambient	R _{θJA}	500			°C/W
Operating & Storage Temperature Range	T _J , T _{STG}	125, -55~150			°C

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

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Reverse Breakdown Voltage	SD103CWSCR	20	-	-	V	I _R =100uA
	SD103BWSCR	30	-	-		
	SD103AWSCR	40	-	-		
Forward Voltage	V _F	-	-	0.37	V	I _F =20mA
		-	-	0.6		I _F =200mA
Reverse Leakage Current	SD103CWSCR	-	-	5	uA	V _R =10V
	SD103BWSCR	-	-	5		V _R =20V
	SD103AWSCR	-	-	5		V _R =30V
Junction Capacitance	C _J	-	-	50	pF	V _R =0V, f=1MHz

RATINGS AND CHARACTERISTIC CURVES

Figure 1. FORWARD CHARACTERISTIC

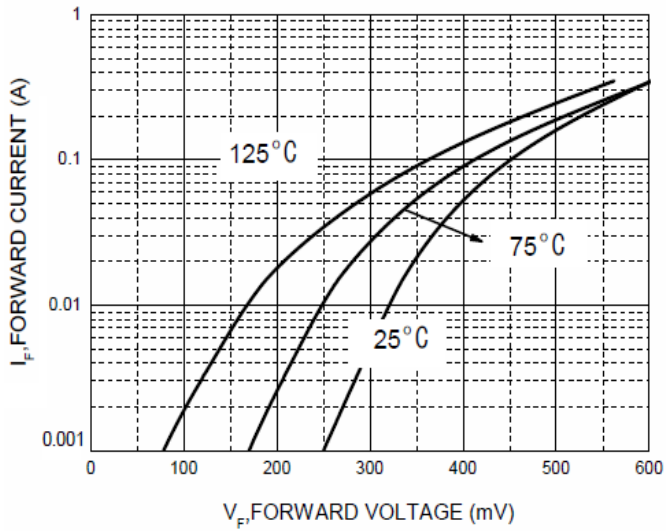


Figure 2. REVERSE CHARACTERISTIC

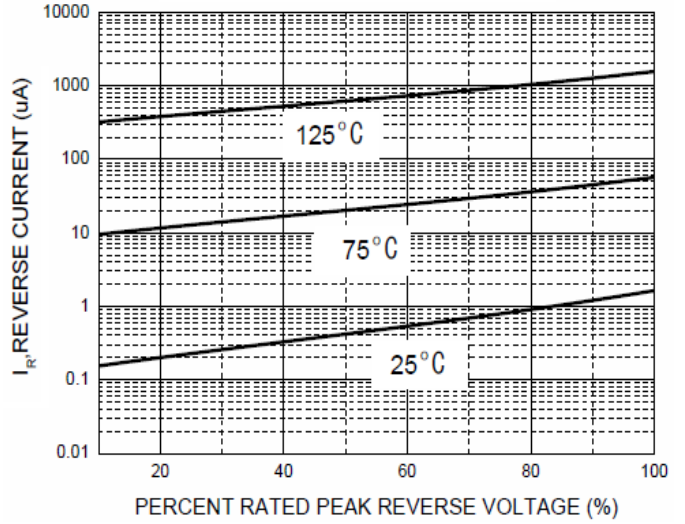


Figure 3. JUNCTION CAPACITANCE

