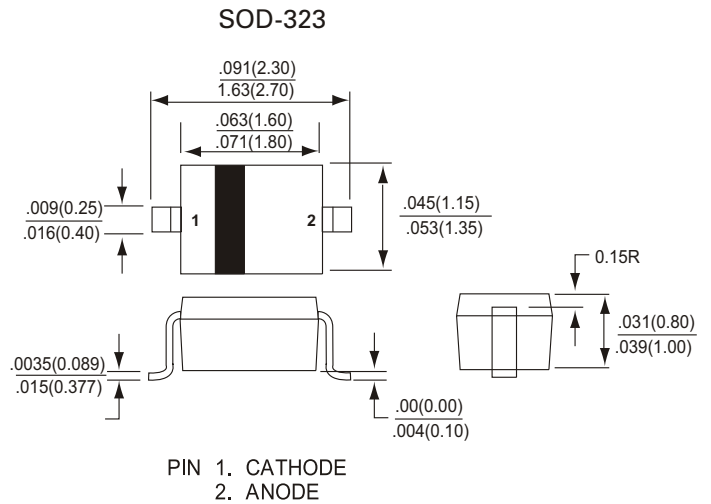


SD103AWS/SD103BWS/SD103CWS

SURFACE MOUNT SCHOTTKY BARRIER DIODES

SMALL SIGNAL SCHOTTKY DIODES 350m AMPERES 20~40 VOLTS



FEATURES

- Low Forward Voltage
- Very Small Conduction Losses
- Schottky Barrier Diodes Encapsulated in SOD-323 Package

MECHANICAL DATA

Polarity : Cathode Band
Leads : Solderable per MIL-STD-202 Method 208
Wight : 0.004grams (approx)

MAXIMUM RATING (T_A=25°C unless otherwise noted)

CHARACTERISTICS	SYMBOL	SD103AWS	SD103BWS	SD103CWS	UNITS
Peak Repetitive Reverse Voltage	V _{RRM}				
Working Peak Reverse Voltage	V _{RWM}	40	30	20	Volts
DC Blocking Voltage	V _R				
RMS Reverse Voltage	V _{R(RMS)}	28	21	14	Volts
Average Repetitive Output Current	I _{FAV}	350			mA
Non-Repetitive Peak Forward Surge Current @ t ≤ 1.0S	I _{FSM}	1.5			A
Power Dissipation ⁽¹⁾	P _d	200			mW
Typical thermal Resistance junction to Ambient Note ⁽¹⁾	R _{θJA}	625			°C / W
Operating & Storage Temperature Range	T _J T _{STG}	-40 to +125			°C

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

CHARACTERISTICS	SYMBOL	Min	Typ	Max	UNITS
Reverse Breakdown Voltage ⁽²⁾ SD103AWS (I _R = 100uA) SD103BWS SD103CWS	V _{(BR)R}	40 30 20	-	-	Volts
Forward Voltage Note ⁽²⁾ I _F = 20mA I _F = 200mA	V _F	-	-	0.37 0.60	Volts
Reverse Current Note ⁽²⁾ V _R = 30V, SD103AWS V _R = 32V, SD103BWS V _R = 10V, SD103CWS	I _R	-	-	5.0	µAmps
Junction Capacitance, f = 1MHz, V _R = 0VDC	C _J	-	50	-	pF
Reverse Recovery Time I _F = I _F = 200mA, I _{RR} = 0.1 * I _R , R _L = 100Ω	T _{RR}	-	10	-	nS

NOTES :

1. Valid provided that leads are kept at ambient temperature.
2. Pulse Test: Pulse width=300µs, Duty Cycle ≤ 2%

SD103AWS/SD103BWS/SD103CWS

SURFACE MOUNT SCHOTTKY BARRIER DIODES

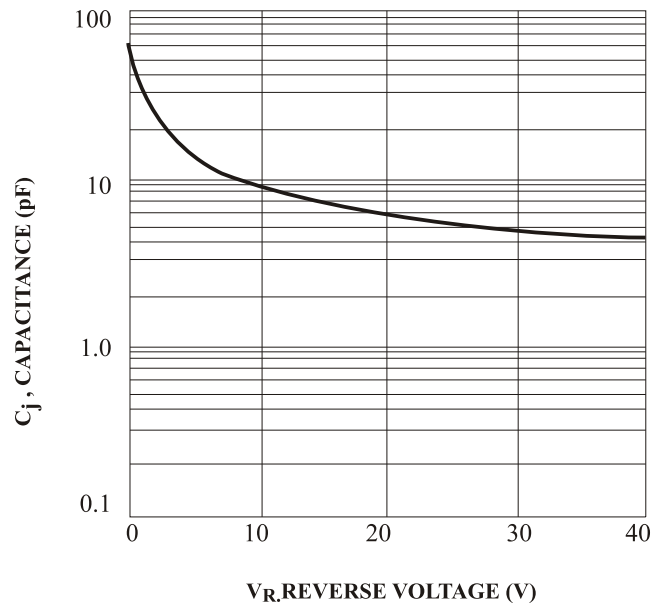


FIG. 2 Typ, Junction Capacitance vs. Reverse Voltage

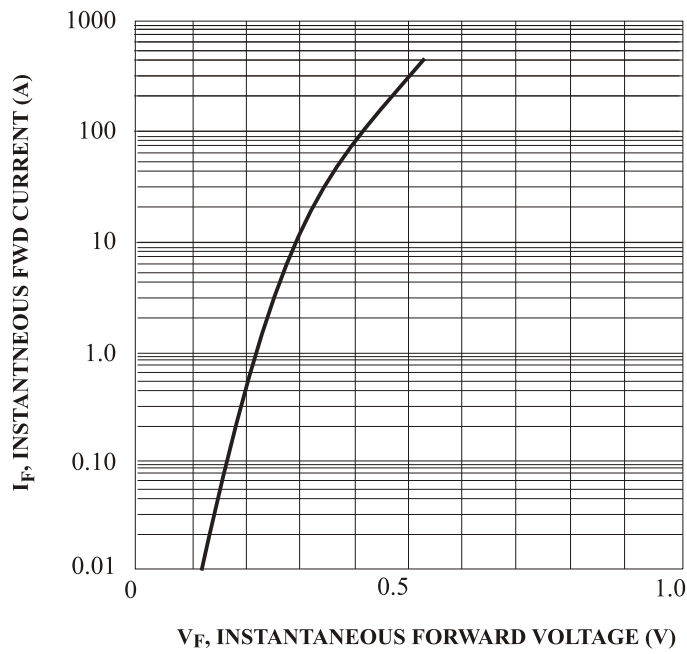


FIG. 2 Typical Forward Characteristics