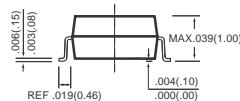
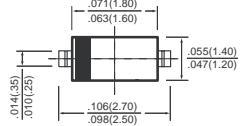


SCHOTTKY DIODES
FEATURES

- * Low Forward Voltage Drop
- * Guard Ring Construction for Transient Protection
- * Negligible Reverse Recovery Time
- * Low Reverse Capacitance

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Lead: MIL-STD-202E method 208C guaranteed
- * Mounting position: Any
- * Weight: 0.004 grams


SOD-323


Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

MAXIMUM RATINGS (@TA=25°C unless otherwise noted)

RATINGS	SYMBOL	SD103AWS		UNITS
Peak Repetitive Peak reverse voltage	VRMR	40		Volts
Working Peak Reverse Voltage	VRWR			
DC Blocking Voltage	VR			
RMS Reverse Voltage	VR(RMS)	28		Volts
Maximum Forward Continuous Current	IFM	350		mAmps
Non-Repetitive Peak Forward Surge Current @t<1.0S	IFSM	1.5		Amps
Maximum Power Dissipation	PD	200		mW
Thermal Resistance junction to ambient	RθJA	300		°C/W
Operating and Storage Temperature Range	T _{J,TSTG}	-65 to + 125		°C

ELECTRICAL CHARACTERISTICS (@ TA = 25°C unless otherwise noted)

CHARACTERISTICS	SYMBOL	MIN.	TYP.	MAX.	UNITS
Reverse Breakdown Voltage (IR=10µA)	V(BR)R	40	-	-	V
Reverse voltage leakage current (VR=30V)	IR	-	-	5.0	µA
Forward voltage (IF=20mA) (IF=200mA)	VF	-	-	0.37 0.60	V
Capacitance between terminals (VR=0V,f=1MHz)	CT	-	50	-	pF
Reverse Recovery Time (IF=IR=200mA,RL=100Ω,IRr=0.1xIR)	t _{rr}	-	10	-	ns

RATING AND CHARACTERISTICS CURVES (SD103AWS)

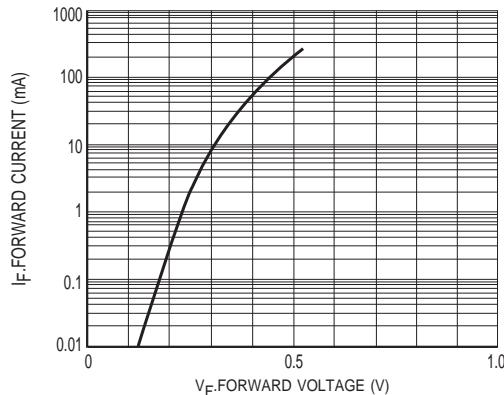


Figure1 Typical Forward characteristics

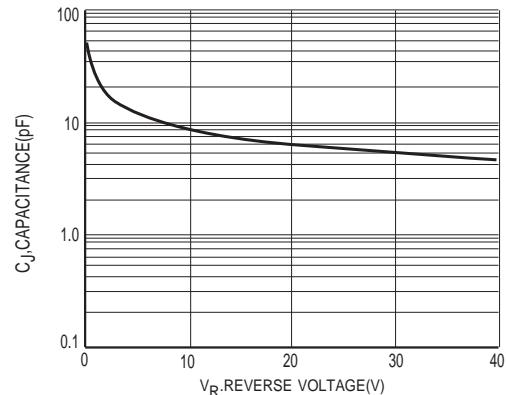


Figure2 Typical Junction Capacitance vs Reverse Voltage

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