

**SCHOTTKY DIODES**

**FEATURES**

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

**MECHANICAL DATA**

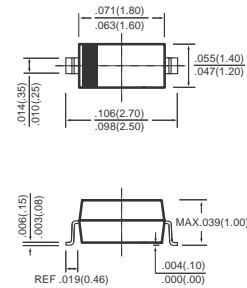
- \* Case: Molded plastic
- \* Epoxy: UL 94V-O rate flame retardant
- \* Lead: MIL-STD-202E method 208C guaranteed
- \* Mounting position: Any
- \* Weight: 0.004 grams

**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%.



**SOD-323**



**MAXIMUM RATINGS** (@ $T_A=25^\circ\text{C}$  unless otherwise noted)

RATINGS	SYMBOL	SD101AWS	UNITS
Peak Repetitive Peak reverse voltage	$V_{RMR}$	60	Volts
Working Peak Reverse Voltage	$V_{RWR}$		
DC Blocking Voltage	$V_R$		
RMS Reverse Voltage	$V_{R(RMS)}$	42	Volts
Maximum Forward Continuous Current	$I_{FM}$	15	mAmps
Non-Repetitive Peak Forward Surge Current		@ $t < 1.0\text{S}$	50
		@ $t = 10\mu\text{S}$	2.0
Maximum Power Dissipation	$P_D$	200	mW
Thermal Resistance junction to ambient	$R_{\theta JA}$	300	$^\circ\text{C}/\text{W}$
Operating and Storage Temperature Range	$T_J, T_{STG}$	-65 to + 125	$^\circ\text{C}$

**ELECTRICAL CHARACTERISTICS** (@  $T_A = 25^\circ\text{C}$  unless otherwise noted)

CHARACTERISTICS	SYMBOL	MIN.	TYP.	MAX.	UNITS
Reverse Breakdown Voltage	$V_{(BR)R}$	60	-	-	V
Reverse voltage leakage current	$I_R$	-	-	0.2	$\mu\text{A}$
Forward voltage	$V_F$	-	-	0.41	V
				1.00	
Capacitance between terminals	$C_T$	-	-	2.0	pF
Reverse Recovery Time	$t_{rr}$	-	-	1.0	ns

## RATING AND CHARACTERISTICS CURVES ( SD101AWS )

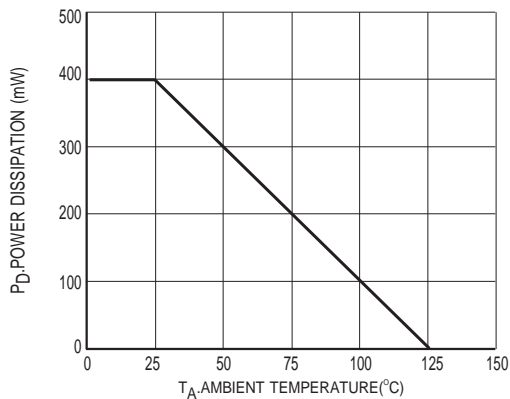


Figure1 Power Derating Curve

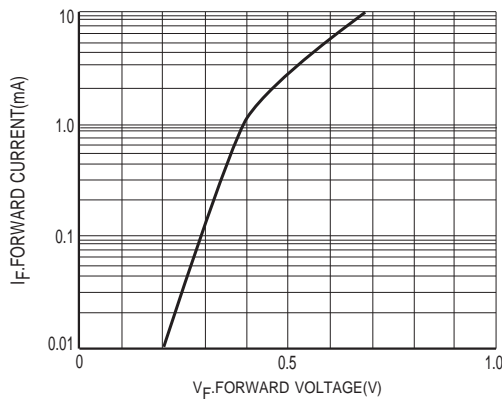


Figure2 Typical Forward Characteristics

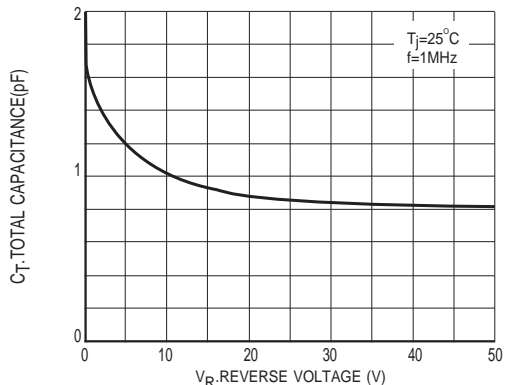


Figure3 Typical Total Capacitance vs Reverse Voltage

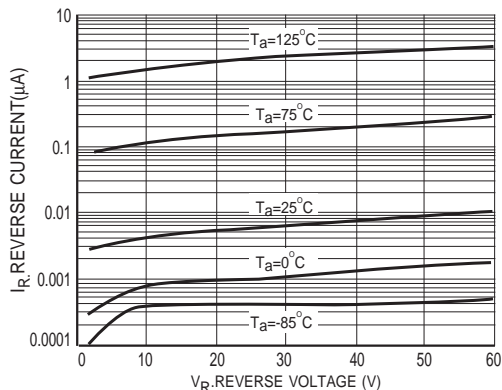


Figure4 Typical Reverse Characteristics

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