

SCHOTTKY DIODES

FEATURES

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

MECHANICAL DATA

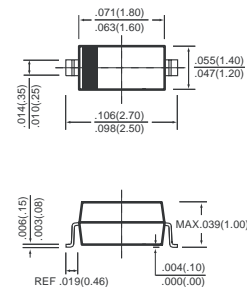
- * Case: Molded plastic
- * Epoxy: UL 94V-O rate flame retardant
- * Lead: MIL-STD-202E method 208C guaranteed
- * Mounting position: Any
- * Weight: 0.004 grams

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 (@_{TA}=25°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	I _{FSM}	@t<1.0S	50	mAmps
		@t=10μS	2.0	Amps
Maximum Power Dissipation	P _D	200	mW	
Thermal Resistance junction to ambient	R _{θJA}	300	°C/W	
Operating and Storage Temperature Range	T _J , T _{STG}	-65 to + 125	°C	

ELECTRICAL CHARACTERISTICS (@ TA = 25°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	μA
Forward voltage	V _F	-	-	(I _F =1.0mA)	0.41
				(I _F =15mA)	1.00
Capacitance between terminals	C _T	-	-	2.0	pF
Reverse Recovery Time	t _{rr}	-	-	1.0	ns

RATING AND CHARACTERISTICS CURVES (SD101AWS)

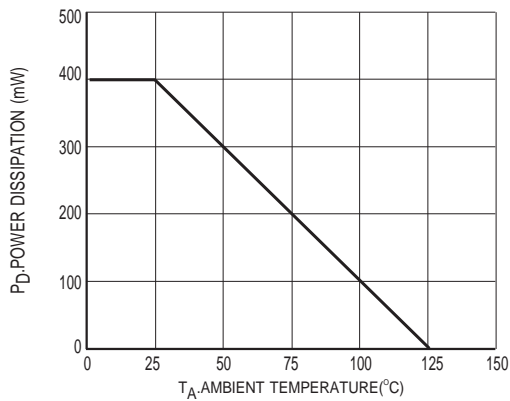


Figure1 Power Derating Curve

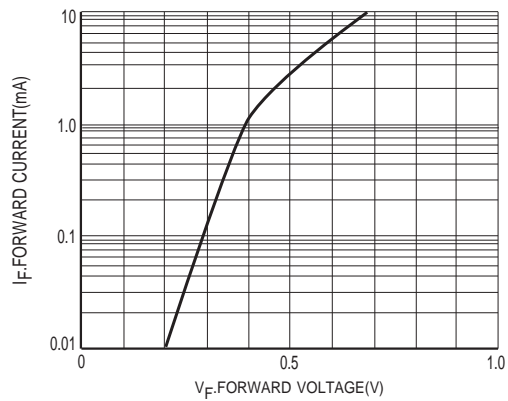


Figure2 Typical Forward Characteristics

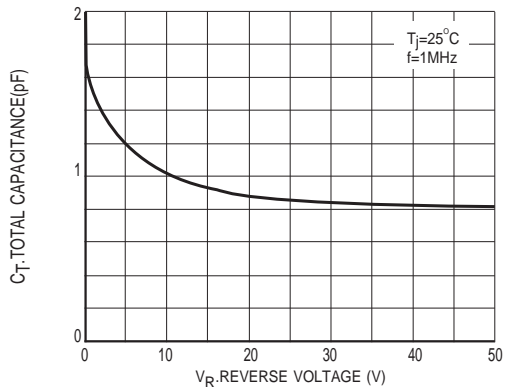


Figure3 Typical Total Capacitance vs Reverse Voltage

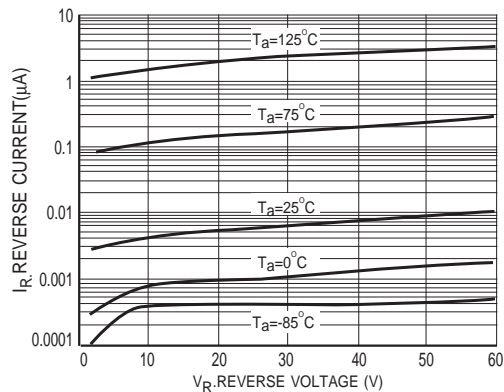


Figure4 Typical Reverse Characteristics

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