

SCHOTTKY DIODES

FEATURES

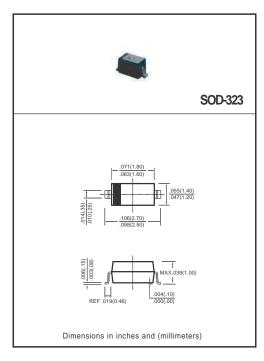
- * Fast Switching Speed
- * Low turn-on voltage
- * PN Junction Guard for Transient and ESD Protection
- * Designed for Surface Mount Application
- * Plastic Material-UL Recognition Flammability Classification 94V-O

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%.



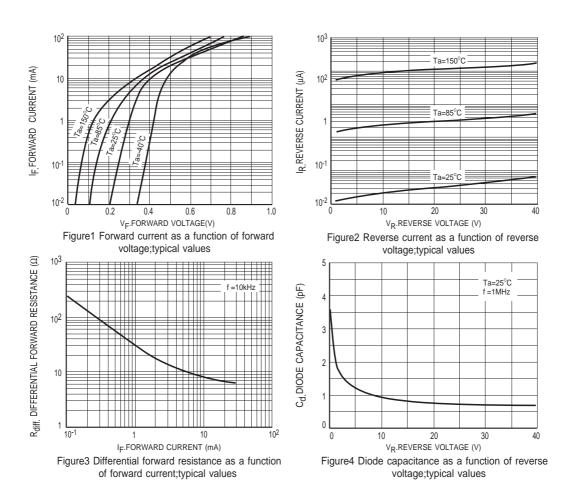
MAXIMUM RATINGS (@T_A=25°C unless otherwise noted)

RATINGS	SYMBOL	BAS40WS	UNITS
Peak Repetitive Peak reverse voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RMR} V _{RWR} V _R	40	Volts
Maximum Forward Comtinuous Current	IF	200	mAmps
Non-Repetitive Peak Forward Surge Current @t<1.0S	IFSM	600	mAmps
Maximum Power Dissipation	PD	200	mW
Thermal Resistance junction to ambient	Reja	625	K/W
Operating and Storage Temperature Range	T _J ,T _{STG}	-55 to + 150	°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	(V _R =30V)	I _R	-	20	200	nA
Forward voltage	(I _F =1mA) (I _F =10mA) (I _F =40mA)	V _F	-		0.38 0.5 1	V
Capacitance between terminals	(V _R =0V,f=1MHz)	C _T	-	4	5	pF
Reverse Recovery Time	$(I_F=I_R=10\text{mA},R_L=100\Omega,I_{rr}=0.1\text{xIR})$	t _{rr}	-	-	5	ns

RATING AND CHARACTERISTICS CURVES (BAS40WS)



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