

SOT-23 SURFACE MOUNT SCHOTTKY DIODE

FEATURES

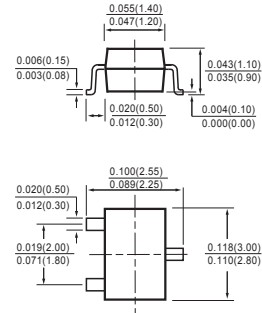
- * Low Turn-on voltage
- * Fast switching
- * Ultra-small surface mount package
- * Also available in lead free version
- * Marking BAS70 = 73

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94V-O rate flame retardant
- * Lead: MIL-STD-202E method 208C guaranteed
- * Mounting position: Any
- * Weight: 0.008 gram



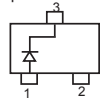
SOT-23



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.



Pin Configuration
1 = ANODE
2 = NC
3 = CATHODE

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

RATINGS	SYMBOL	BAS70	UNITS
Continuous Reverse Voltage	V _R	70	V
Continuous Forward Current	I _F	70	mA
Repetitive Peak Voltage T _p ≤ 1s ; δ ≤ 0.5	I _{FRM}	70	mA
Non Repetitive Peak Forward Current t _p = 10 ms	I _{FSM}	100	mA
Storage Temperature	T _{STG}	-65 to +150	°C
Junction Temperature Range	T _J	150	°C
Storage Temperature Range	T _{amb}	-65 to +150	°C

THERMAL RESISTANCE

Junction to Ambient in free air	R _{th (j-a)}	500	K/W
---------------------------------	-----------------------	-----	-----

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

CHARACTERISTICS	SYMBOL	MIN.	TYP.	MAX.	UNITS
Reverse voltage leakage current	I _R	-	-	10	uA
				0.1	
Forward voltage	V _F	-	-	410	mV
				750	
				1000	
Diode capacitance (V _R =0,f=1MHz)	C _D	-	-	2	pF

Note 1: "Fully ROHS compliant", "100% Sn plating (Pb-free)".

RATING AND CHARACTERISTICS CURVES (BAS70)

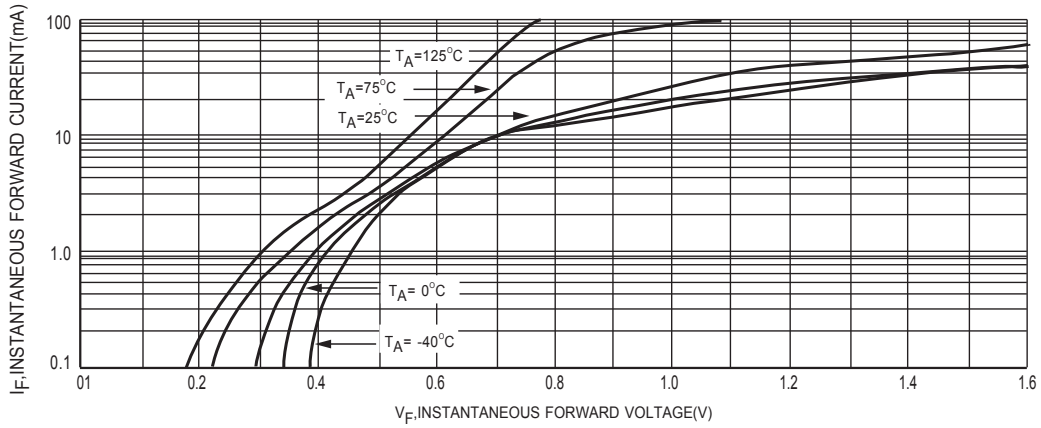


Figure 1 Typical Forward Characteristics

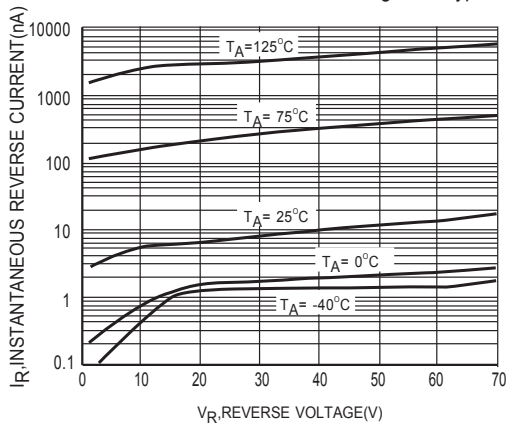


Figure 2 Typical Reverse Characteristics

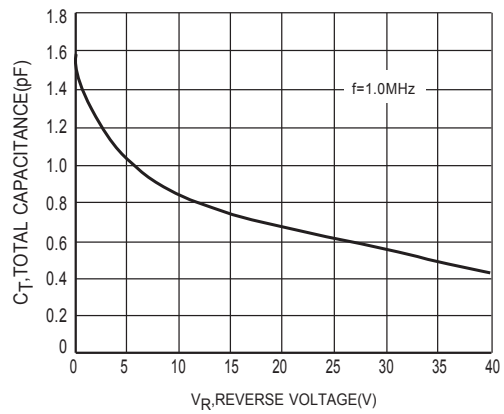


Figure 3 Typical Capacitance

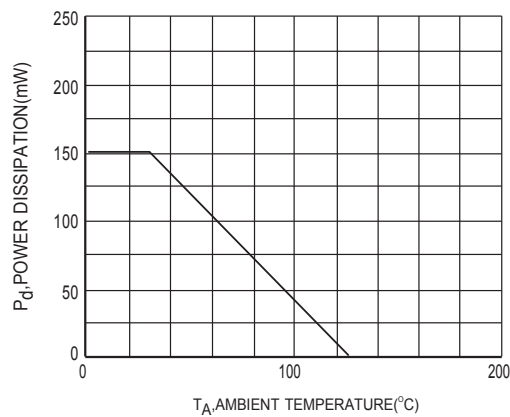


Figure 4 Power Derating Curve, Total Package

DISCLAIMER NOTICE

Rectron Inc reserves the right to make changes without notice to any product specification herein, to make corrections, modifications, enhancements or other changes. Rectron Inc or anyone on its behalf assumes no responsibility or liability for any errors or inaccuracies. Data sheet specifications and its information contained are intended to provide a product description only. "Typical" parameters which may be included on RECTRON data sheets and/ or specifications can and do vary in different applications and actual performance may vary over time. Rectron Inc does not assume any liability arising out of the application or use of any product or circuit.

Rectron products are not designed, intended or authorized for use in medical, life-saving implant or other applications intended for life-sustaining or other related applications where a failure or malfunction of component or circuitry may directly or indirectly cause injury or threaten a life without expressed written approval of Rectron Inc. Customers using or selling Rectron components for use in such applications do so at their own risk and shall agree to fully indemnify Rectron Inc and its subsidiaries harmless against all claims, damages and expenditures.