

SOT-23 SCHOTTKY DIODE

FEATURES

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

MECHANICAL DATA

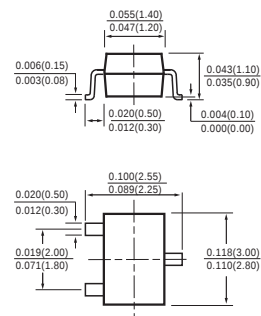
- * Case: Molded plastic
- * Epoxy: UL 94V-O rate flame retardant
- * Lead: MIL-STD-202E method 208C guaranteed
- * Mounting position: Any
- * Weight: 0.008 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.



SOT-23



Dimensions in inches and (millimeters)

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

RATINGS	SYMBOL	VALUE	UNITS
DC Voltage	V_R	70	V
Forward Continuous Current	I_F	70	mA
Max. Steady State Power Dissipation @TA=25°C	P_D	200	mW
Max. Operating Temperature Range	T_J	150	°C
Storage Temperature Range	T_{STG}	-55 to +150	°C

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

CHARACTERISTICS	SYMBOL	MIN.	TYP.	MAX.	UNITS
Reverse breakdown voltage ($I_R=10\mu A$)	$V_{(BR)R}$	70	-	-	V
Reverse voltage leakage current ($V_R=50V$)	I_R	-	-	100	nA
Forward voltage ($I_F=1mA$)	V_F	-	-	410	mV
($I_F=15mA$)				1000	
Diode capacitance ($V_R=0, f=1MHz$)	C_D	-	-	2	pF
Reveres recovery time ($I_F=I_R=10mA, I_{rr}=0.1 \times I_R, R_L=100\Omega$)	t_{rr}	-	-	5	nS

RATING AND CHARACTERISTICS CURVES (BAS70A)

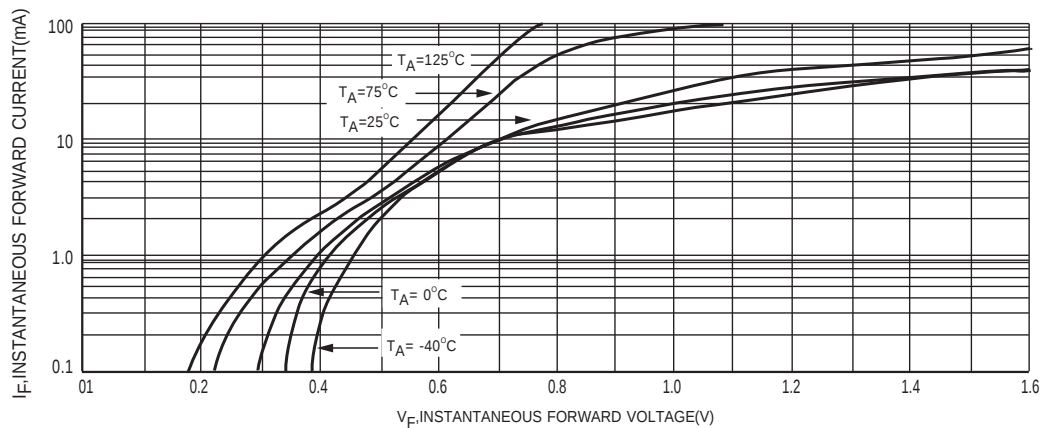


Figure 1 Typical Forward Characteristics

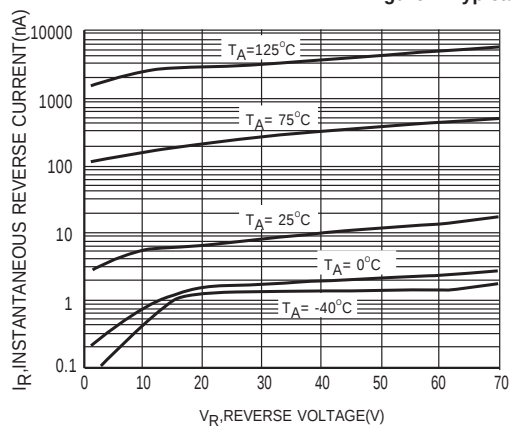


Figure 2 Typical Reverse Characteristics

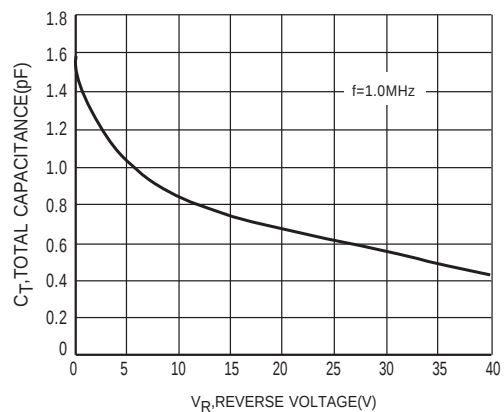


Figure 3 Typical Capacitance

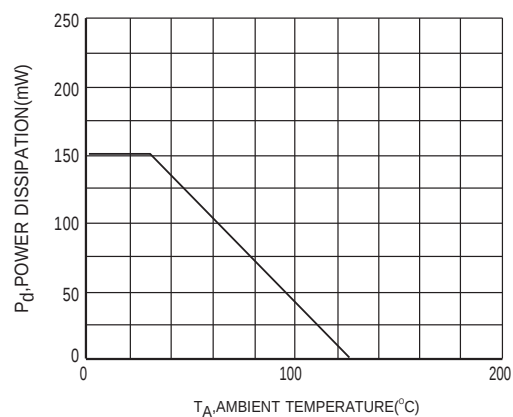


Figure 4 Power Derating Curve, Total Package

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