

SOT-23 SCHOTTKY DIODE

FEATURES

- * Power Dissipation
PD : 200mW(Tamb= 25°C)

MECHANICAL DATA

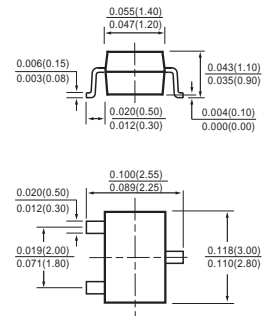
- * Case: Molded plastic
- * Epoxy: UL 94V-O rate flame retardant
- * Lead: MIL-STD-202E method 208C guaranteed
- * Mounting position: Any
- * Weight: 0.008 gram

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
Peak Repetitive Peak reverse voltage Working Peak Reverse Voltage DC Blocking Voltage	V _R	30	V
Forward Continuous Current	I _F	200	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 (@ TA = 25°C unless otherwise noted)

CHARACTERISTICS	SYMBOL	MIN.	TYP.	MAX.	UNITS
Reverse breakdown voltage (I _R =100μA)	V _{(BR)R}	30	-	-	V
Reverse voltage leakage current (V _R =25V)	I _R	-	-	2	μA
Forward voltage (I _F =0.1mA) (I _F =1mA) (I _F =10mA) (I _F =30mA) (I _F =100mA)	V _F	-	-	0.24 0.32 0.40 0.50 1	V
Diode capacitance (V _R =1V, f=1MHz)	C _D	-	-	10	pF
Reveres recovery time (I _F =I _R =10mA, I _{rr} =0.1 X I _R , R _L =100Ω)	t _{rr}	-	-	5	nS

RATING AND CHARACTERISTICS CURVES (BAT54S)

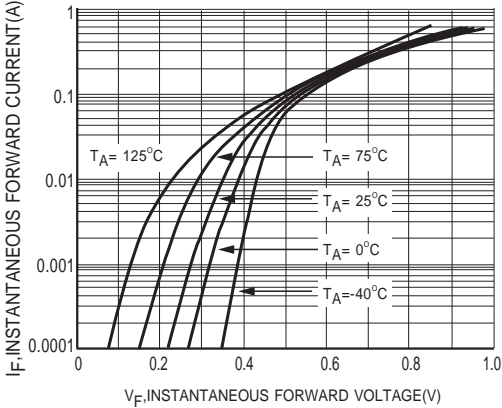


Figure1 Forward Characteristics

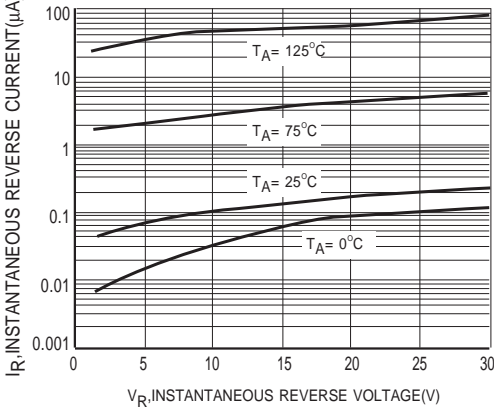


Figure2 Typical Reverse Capacitance

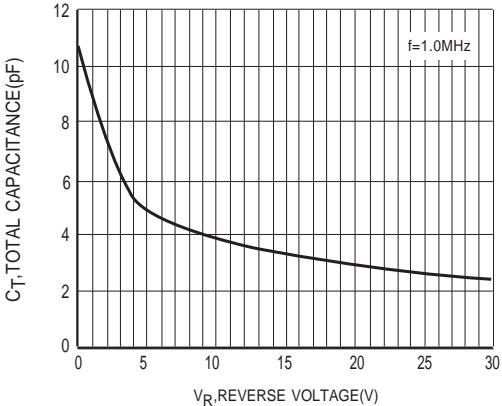


Figure3 Typical Capacitance vs Reverse Voltage

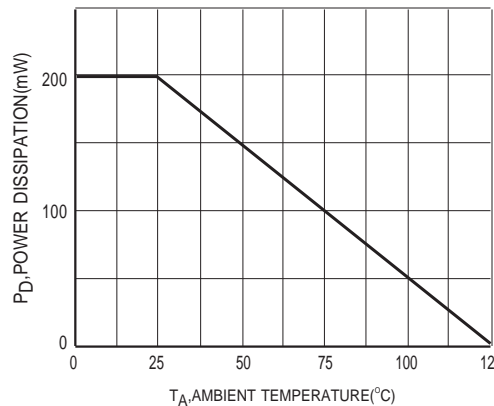


Figure4 Power Derating Curve

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