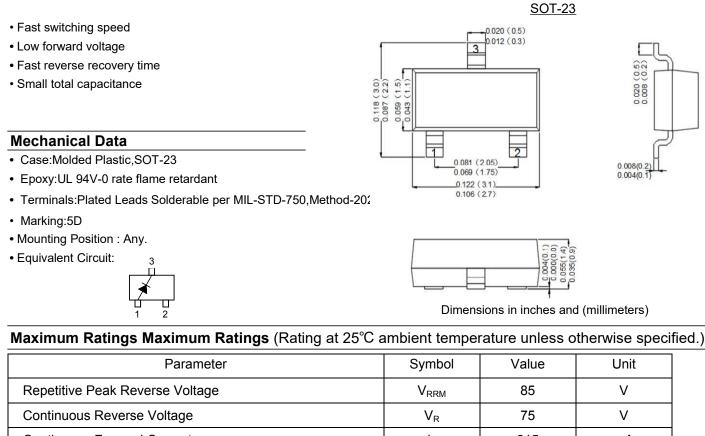
BAS16

SURFACE MOUNT FAST SWITCHING DIODE



Continuous Forward Current		١ _F	215	mA
Repetitive Peak Forward Current		I _{FRM}	500	mA
Non-Repetitive Peak Forward Surge Current	t = 1 µs t = 1 ms t = 1 s	I _{FSM}	4 1 0.5	A
Power Dissipation		P _{tot}	350	mW
Junction Temperature		Tj	150	°C
Storage Temperature Range		T _{stg}	- 65 to + 150	°C

Electrical Characteristics (Rating at 25°C ambient temperature unless otherwise specified.)

Parameter	Symbol	Min.	Max.	Unit
Forward Voltage at $I_F = 1 \text{ mA}$ at $I_F = 10 \text{ mA}$ at $I_F = 50 \text{ mA}$ at $I_F = 150 \text{ mA}$	V _F V _F V _F V _F	- - -	715 855 1 1.25	mV mV V V
Reverse Current at $V_R = 25 V$ at $V_R = 75 V$ at $V_R = 25 V$, $T_J = 150 °C$ at $V_R = 75 V$, $T_J = 150 °C$	I _R I _R I _R	- - -	30 1 30 50	nA μA μA μA
Reverse Breakdown Voltage at I_R = 100 μ A	V _{(BR)R}	75	-	V
Diode Capacitance at $V_R = 0$, f = 1 MHz	C _d	-	2	pF
Reverse Recovery Time at $I_F = I_R = 10$ mA, $R_L = 50 \Omega$	t _{rr}	-	4	ns

Features





Rating And Characteristic Curves

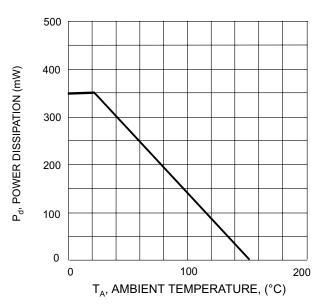


Fig.1 Power Derating Curve

Fig.2 Typical Forward Characteristics

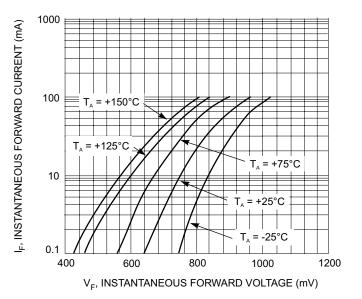
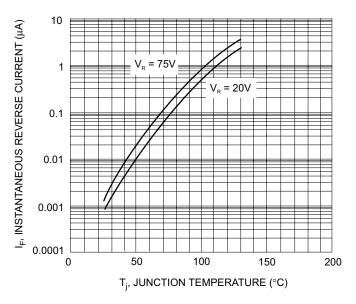


Fig. 3, Typical Reverse Characteristics



SURFACE MOUNT FAST SWITCHING DIODE

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