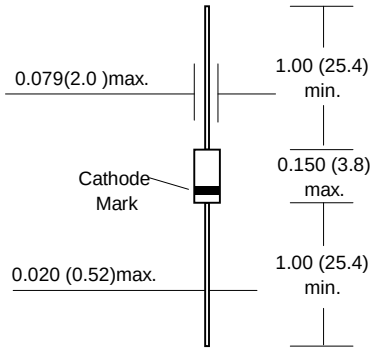
BAX18

SWITCHING DIODE

DO - 35 Glass
(DO-204AH)



Dimensions in inches and (millimeters)

FEATURES :

- Switching speed: max. 50 ns
- General application
- Continuous reverse voltage: max. 75 V
- Repetitive peak reverse voltage: max. 75 V
- Repetitive peak forward current: max. 2 A.
- Pb / RoHS Free

MECHANICAL DATA :

Case: DO-35 Glass Case
Weight: approx. 0.13g

Maximum Ratings and Thermal Characteristics (Rating at 25 °C ambient temperature unless otherwise specified.)

Parameter	Symbol	Value	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	75	V
Maximum Continuous Reverse Voltage	V_R	75	V
Maximum Continuous Forward Current	I_F	500	mA
Maximum Average Forward Current	$I_{F(AV)}$	400	mA
Maximum Repetitive Peak Forward Current	I_{FRM}	2	A
Maximum Non-repetitive Peak Forward Current at t = 10ms, Tj = 25°C	I_{FSM}	9	A
Maximum Power Dissipation	P_D	450	mW
Maximum Junction Temperature	T_J	200	°C
Storage Temperature Range	T_S	-65 to + 200	°C

Electrical Characteristics (T_J = 25°C unless otherwise noted)

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Reverse Current	I_R	V_R = 75 V V_R = 75 V, Tj = 150°C	- -	- -	5 100	µA
Forward Voltage	V_F	I_F = 300 mA	-	-	1.0	V
Diode Capacitance	Cd	f = 1MHz ; V_R = 0	-	-	35	pF
Reverse Recovery Time	Trr	I_F = 30mA , I_R = 30mA I_{RR} = 3mA , R_L = 100 Ω measured at I_R = 3 mA	-	-	50	ns

RATING AND CHARACTERISTIC CURVES (BAX18)

FIG. 1 MAXIMUM FORWARD CURRENT VERSUS AMBIENT TEMPERATURE.

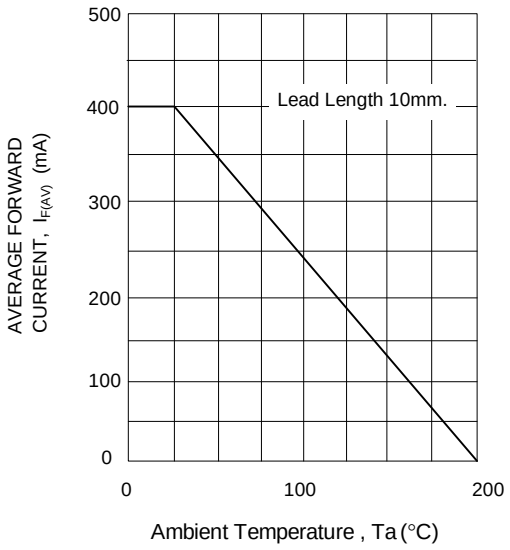


FIG. 2 TYPICAL FORWARD VOLTAGE

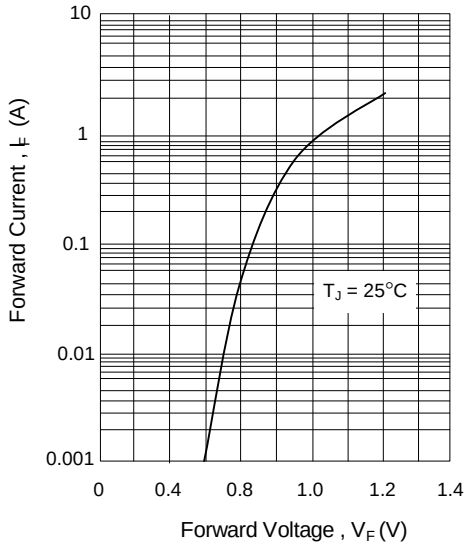


FIG. 3 TYPICAL DIODE CAPACITANCE AS A FUNCTION OF REVERSE VOLTAGE

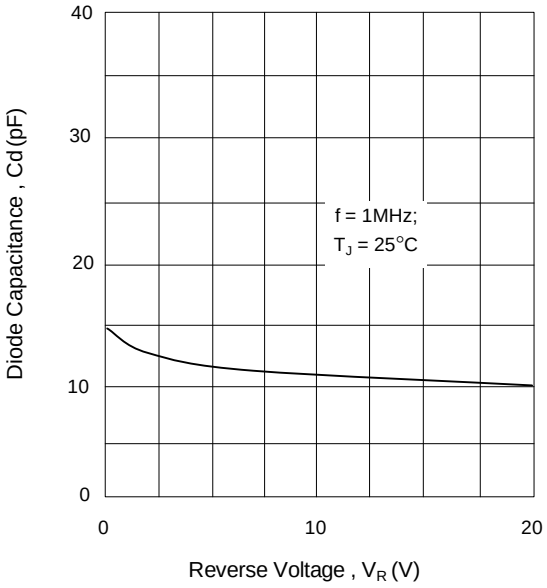


FIG.4 TYPICAL REVERESE CURRENT VS JUNCTION TEMPERATURE