



1.00 (25.4)

min.

Certificate TH97/10561QM

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BAX12, BAX12A

CONTROLLED AVALANCHE DIODES

DO - 35

FEATURES:

- * Switching speed: max. 50 ns
- * Continuous reverse voltage: max. 90V
- * Repetitive peak reverse voltage: max. 90V
- * Repetitive peak forward current: max.800 mA
- * Repetitive peak reverse current: max.600mA
- * Pb / RoHS Free

MECHANICAL DATA:

- * Case : DO-35 Glass Case
- * Lead : Axial lead solderable per MIL-STD-Method 208 guaranteed
- * Polarity : Color band denotes cathode end
- * Mounting position : Any
- * Weight: 0.13 gram (approximately)

MAXIMUM RATINGS

0-202, Id	0.020 (0.52)max.	
	Dimensions in inches and (millimeters)	

0.079(2.0)max.

Parameter	Symbol	Value	Unit	
Repetitive Peak Reverse Voltage	V _{RRM}	90	V	
Continuous Reverse Voltage	V _R	90	V	
Continuous Forward Current	I _F	400	mA	
Repetitive Peak Forward Current	I _{FRM}	800	А	
Non-repetitive Peak Forward Current	t = 1 µs		55	
Square wave: Tj = 25 °C prior to surge	t = 100 µs	I _{FSM}	15	Α
	t = 10 ms		9	
Total Power Dissipation , Ta = 25 °C	P _{tot}	450	mW	
Repetitive Peak Reverse Current	I _{RRM}	600	mA	
Junction Temperature	TJ	200	°C	
Storage Temperature Range	Ts	-65 to + 200	°C	

Note: (1) Device mounted on an FR4 printed circuit-board; lead length 10 mm.

ELECTRICAL CHARACTERISTICS (T_J = 25°C unless otherwise noted)

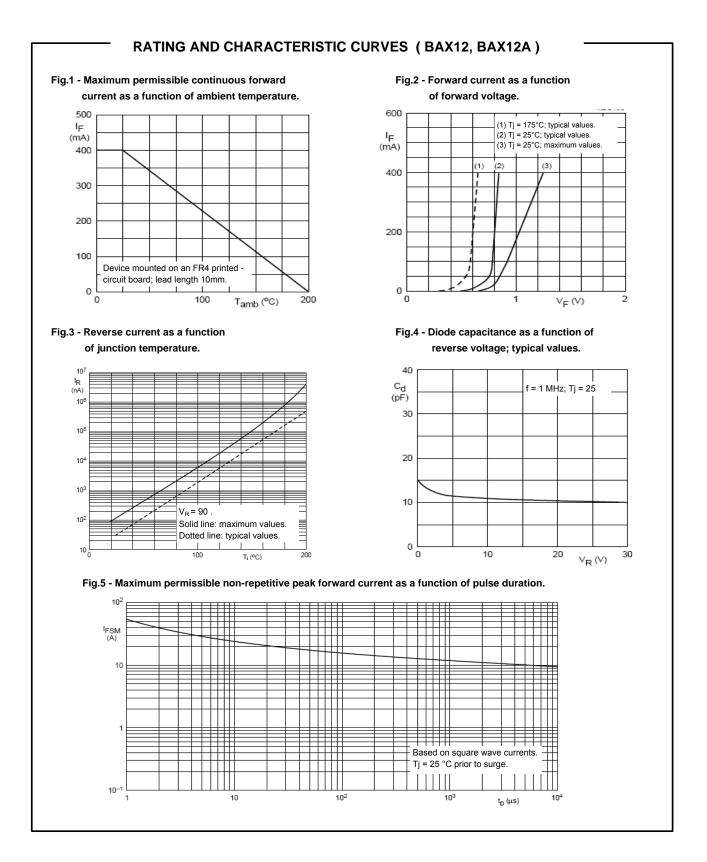
Parameter	Symbol	Test Condition	Min.	Max.	Unit
Reverse Avalanche BAX12	V _{(BR)R}	I _R = 1mA	120	170	V
Breakdown Voltage BAX12A	⊻ (BR)R	I _R = 0.1mA	120	170	V
Reverse Current	I	V _R = 90 V	-	100	nA
Reverse Guilent	I _R	V _R = 90 V, Tj = 150 °C	-	100	μA
Forward Voltage	V _F	I _F = 400 mA	-	1.25	V
Diode Capacitance	Cd	f = 1MHz ; V _R = 0	-	35	pF
		I _F = 30mA , I _R = 30mA			
Reverse Recovery Time	Trr	R_L = 100 Ω measured at	-	50	ns
		I _R = 3 mA			





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