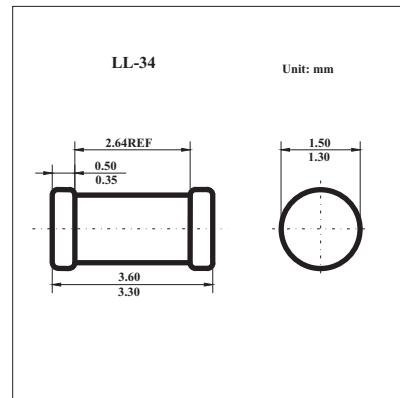


Surface Mount Switching Diode

BAV103

■ Features

- Fast Switching Speed
- Surface Mount Package Ideally Suited for Automatic Insertion
- For General Purpose Switching Applications
- High Conductance



■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Repetitive Peak Reverse Voltage	V _{RRM}	250	V
Working Peak Reverse Voltage	V _{RWM}	200	V
DC Blocking Voltage	V _R	200	V
RMS Reverse Voltage	V _{R(RMS)}	141	V
Average Rectified Output Current *1	I _O	125	mA
Forward Continuous Current *1	I _{FM}	250	mA
Non-Repetitive Peak Forward Surge Current @ t < 1.0s	I _{FSM}	1	A
Power Dissipation	P _D	500	mW
Thermal Resistance Junction to Ambient Air *1	R _{θ JA}	300	K/W
Operating and Storage Temperature Range	T _j , T _{STG}	-65 to +175	C

*1. Valid provided that electrodes are kept at ambient temperature.

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Testconditons	Min	Typ	Max	Unit
Maximum Forward Voltage	V _{FM}	I _F = 100mA			1	V
Maximum Peak Reverse Current @ Rated DC Blocking Voltage	I _{RM}	T _A = 25°C T _A = 100°C			100 15	nA μ A
Junction Capacitance	C _j	V _R = 0, f = 1.0MHz			1.5	pF
Reverse Recovery Time	t _{rr}	I _F = I _R = 30mA, I _{rr} = 0.1 × I _R , R _L = 100 Ω			50	ns

■ Ordering Information

Device	Packaging	Shipping
BAV103	LL34	2500/Tape & Reel

BAV103

■ Typacl Characteristics

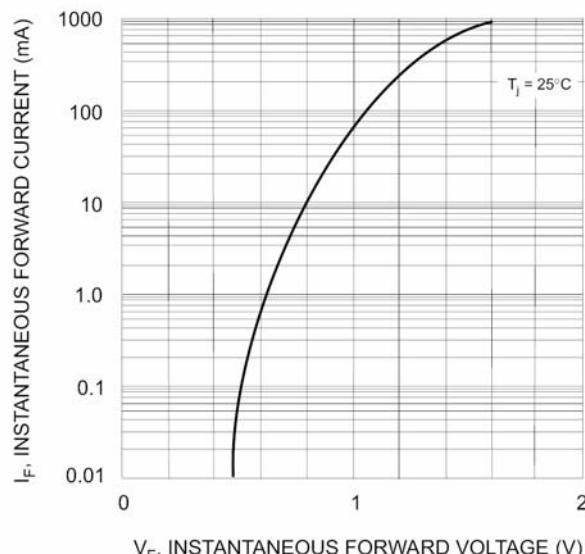


Fig. 1 Forward Characteristics

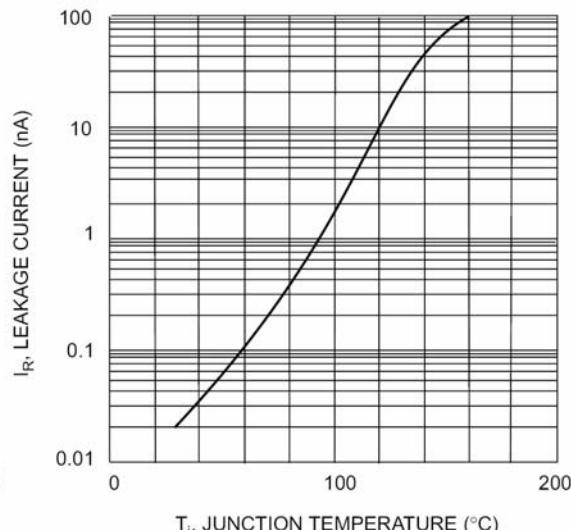


Fig. 2 Leakage Current vs Junction Temperature