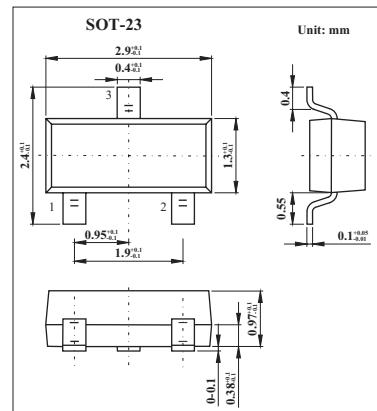


Silicon Switching Diode**BAR74****■ Features**

- For high-speed switching applications

**■ Absolute Maximum Ratings Ta = 25°C**

Parameter	Symbol	Value	Unit
Reverse voltage	V _R	50	V
Peak reverse voltage	V _{RM}	50	V
Forward current	I _F	250	mA
Surge forward current, T = 1 μ s	I _{FS}	4.5	A
Total power dissipation, Ts = 54 °C	P _{tot}	370	mW
Junction temperature	T _j	150	°C
Storage temperature range	T _{stg}	-65 to +150	°C
Junction ambient (Note 1)	R _{th JA}	≤ 330	K/W
Junction soldering point	R _{th JS}	≤ 260	K/W

Note

1. Package mounted on epoxy pcb 40 mm × 40 mm × 1.5 mm/6 cm² Cu.

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Breakdown voltage	V _R	I _R = 100 μ A	50			V
Forward voltage	V _F	I _F = 100 mA			1	V
Reverse current	I _R	V _R = 50 V			0.1	μ A
		V _R = 50 V, Ta = 150 °C			100	
Diode capacitance	C _D	V _R = 0 V, f = 1 MHz			2	pF
Reverse recovery time	t _{rr}	I _F = I _R = 10 mA, R _L = 100 Ω, measured at I _R = 1 mA			4	ns

■ Marking

Marking	JBs
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