

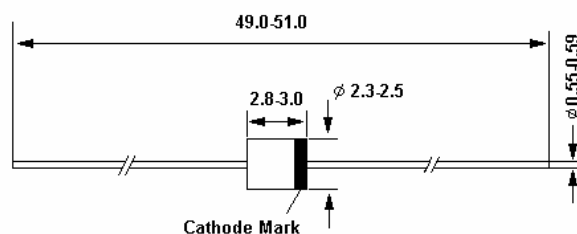
AK04

SILICON SCHOTTKY BARRIER DIODE

Forward Current – 1.0 Ampere

Features

- For pulse rectification applications
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- High temperature soldering:
260°C / 10 seconds at terminals



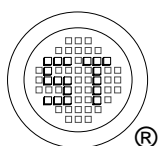
Dimensions in mm

Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)

	Symbols	Rating	Units
Transient Peak Reverse Voltage	V_{RSM}	40	V
Peak Reverse Voltage	V_{RM}	40	V
Average Forward Current			
Peak Surge Forward Current			
I^2t Limiting Value	I^2t	3.125	A^2s
Junction Temperature	T_j	-40 to +150	$^\circ\text{C}$
Storage Temperature Range	T_s	-40 to +150	$^\circ\text{C}$

Characteristics at $T_{amb} = 25^\circ\text{C}$

	Symbol	Value (max.)	Unit
Forward Voltage Drop at $I_F=1.0A$	V_F	0.55	V
Reverse Leakage Current at $V_R=V_{RM}$	I_R	5	mA
Reverse Leakage Current Under High Temperature at $V_R=V_{RM}, T_j=150^\circ\text{C}$	$H \cdot I_R$	35	mA
Thermal Resistance Between Junction and Lead	R_{th}	22	$^\circ\text{C/W}$



SEMTECH ELECTRONICS LTD.

(Subsidiary of Sino-Tech International Holdings Limited, a company listed on the Hong Kong Stock Exchange, Stock Code: 724)



ISO/TS 16949 : 2002
Certificate No. 05103



ISO 14001:2004
Certificate No. 7116



ISO 9001:2000
Certificate No. 0506098

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