



HVA Series

3KV, 5KV High Temperature,
High Voltage Diodes

Features

- High temperature operation to 175°C
- Avalanche Energy rated
- Molded plastic body, ANSI/UL94 V-0 rated material
- RoHS compliant to Directive 2011/65/EC, Article 4(1), Annex II; Annex III, 7(a)



DEVICE ELECTRICAL CHARACTERISTICS

(25 °C ambient temperature unless stated otherwise)

	Conditions	Symbol	HVA3K	HVA5K
Maximum Repetitive Peak Reverse Voltage	-	V_{RRM}	3,000 Volts	5,000 Volts
Average Forward Current Maximum	$T_A = 55^\circ\text{C}$	I_{FAVM}	800mA	500mA
Typical Avalanche Voltage	$I_R = 10\mu\text{A}$	V_Z	4,500 Volts	7,500 Volts
Maximum Forward Voltage Drop	$I_F = I_{FAVM}$	V_F	3.2 Volts	5 Volts
Maximum Surge Current Rating	8.3msec, half sine	I_{FSM}	30 Amps	
Maximum Reverse Current	at rated V_{RRM}	I_R	0.5 μA	
Typical Avalanche Energy Withstand	$T_A = 140^\circ\text{C}$	E_{RSM}	15mJ	35mJ
Maximum Junction Temperature	-	T_J	175°C	
Storage Temperature Range	-	T_{STG}	-55°C to 175°C	

MECHANICAL DATA	Symbol	Min.		Max.	
		in	mm	in	mm
Body Length	A	-	-	0.20	5.1
Body Diameter	D	-	-	0.12	3.1
Lead Length	B	1.00	25.4	-	-
Lead Diameter	C	-	-	0.032	0.81

