



**Features**

- High temperature operation to 175°C
- Avalanche Energy rated
- Molded plastic body, ANSI/UL94 V-0 rated material
- Glass passivated.
- RoHS compliant to Directive 2011/65/EC, Article 4(1), Annex II, Annex III, 7(a) and EU RoHS Directive (EU) 2015/863 of March 2015, Amending Annex II.



**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 $\mu\text{A}$	
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

