

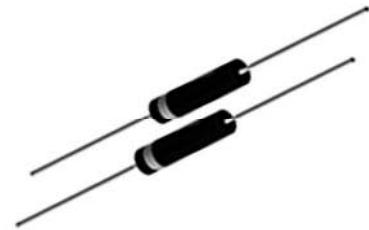
**HVRL400**

40 kV, 50 mA

High Voltage Diode

## Features

- High peak reverse voltage
- Fast Recovery time
- Low junction capacitance
- 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	Value
Repetitive Peak Reverse Voltage		$V_{RRM}$	40,000 Volts
Average Forward Current Maximum	$T_A = 55^\circ\text{C}$	$I_{FAVM}$	50 mA
Maximum Forward Voltage Drop	$I_F = 55 \text{ mA}$	$V_F$	50 Volts
Maximum Reverse Current	@ $V_{RRM}$	$I_R$	1.0 $\mu\text{A}$
Maximum Reverse Recovery Time	$I_F = 20\text{mA}; I_R = 50\text{mA}; Irr = 10 \text{ mA}$	$T_{RR}$	100 $\eta\text{sec}$
Typical Junction Capacitance	$f = 1\text{MHz}, V_R = 0 \text{ Volt}$	$C_J$	0.6 pF
Maximum Forward Surge Current	8.3msec, Half Sine	$I_{FSM}$	3.0 Amps
Maximum Junction Temperature	-	$T_J$	125°C
Maximum Storage Temperature	-	$T_S$	-55°C to 150°C

## Mechanical Data

		Min.	in.	mm	Max.	in.	mm
Body Length	<b>A</b>	-	-	0.60	15.24		
Body Diameter	<b>D</b>	-	-	0.170	4.32		
Lead Length	<b>B</b>	1.0	25.4	-	-		
Lead Diameter	<b>C</b>	-	-	0.032	0.81		

